Response



(REFERENCE COPY - Not for submission)

Section

DTV Engineering STA Application

Question

File Number: 00	000091924	Submit Date: 11/2	9/2019	Call Sign: V	/PTZ	Facility	ID: 57476	FRN: 00015	587583	State:
New York City: PLATTSBURGH										
Service: DTV	Purpose:	Engineering STA	Status:	Submitted	Status	s Date: 1 '	1/29/2019	Filing Status:	Active	

General Information

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	\$200.00
	Total	\$200.00

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
Hearst Stations Inc. Doing Business As: Hearst Stations 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	Contact Name	Address	Phone	Email	Contact Type
Representatives (2)	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	Section	Question	Response
Facility Information	Proposed Community of License	Facility ID	57476
		State	New York
		City	PLATTSBURGH
		DTV Channel	14
		Designated Market Area	Burlington-Plattsburgh
	Facility Type	Facility Type	Commercial
		Station Type	Main
	Zone	Zone	2

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	No
	ASR Number	
Coordinates (NAD83)	Latitude	44° 31' 33.2" N+
	Longitude	072° 48' 55.4" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	42 meters
	Support Structure Height	24.4 meters
	Ground Elevation (AMSL)	1223 meters
Antenna Data	Height of Radiation Center Above Ground Level	18 meters
	Height of Radiation Center Above Average Terrain	817.8 meters
	Height of Radiation Center Above Mean Sea Level	1241 meters
	Effective Radiated Power	250 kW

Antenna	Section	Question	Response
Technical Data	Antenna Type	Antenna Type	Directional Custom
		Do you have an Antenna ID?	No
		Antenna ID	1006022
	Antenna Manufacturer and	Manufacturer:	DIE
	Model	Model	TFU-16WB-R C160 OS
		Rotation	0 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	Value	Degree	Value	Degree	Value	Degree	Value
0	0.111	90	0.286	180	0.998	270	0.878
10	0.106	100	0.395	190	0.998	280	0.799
20	0.104	110	0.507	200	0.991	290	0.710
30	0.103	120	0.612	210	0.988	300	0.613
40	0.104	130	0.708	220	0.992	310	0.508
50	0.106	140	0.798	230	0.998	320	0.396
60	0.111	150	0.877	240	0.998	330	0.286
70	0.134	160	0.941	250	0.981	340	0.193
80	0.193	170	0.981	260	0.941	350	0.134

Additional Azimuths

Degree	V _A
235	1.000

Certification	Section	Question	Response
	General Certification Statements	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.).	
		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.	
	Authorized Party to Sign	 FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID 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. 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). 	
		I certify that this application includes all required and relevant attachments.	Yes
		I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	Jordan M. Wertlieb <i>President</i> 11/29/2019

File Name	Uploaded By	Attachment Type	Description
WPTZ STA request ENG 11-28-2019.pdf	Applicant	All Purpose	WPTZ emergency antenna STA engineering exhibits
WPTZ WNNE Antenna Fire Notification of Silence Notification of Use of Emergency Antenna and Request for STA November 29 2019.pdf	Applicant	All Purpose	WPTZ/WNNE Use of Emergency Antenna and Request for STA



ENGINEERING EXHIBIT

Request for Special Temporary Authorization prepared for

prepared for

Hearst Stations Inc. WPTZ(DT) Plattsburgh, NY Facility ID 57476 Ch. 14 250 kW 818 m

Hearst Stations Inc. ("Hearst"), licensee of WPTZ(DT) (Ch. 14, Facility ID 57476, Plattsburgh NY), requests Special Temporary Authority ("STA") to operate with an emergency antenna. WPTZ is licensed (file# 0000058609) to operate at 650 kW effective radiated power ("ERP") with a directional antenna at 845 meters height above average terrain ("HAAT"). WPTZ's main antenna is inoperative due to a catastrophic antenna failure, where the antenna caught fire on November 19, 2019 and was damaged beyond repair.

The WPTZ main antenna is top-mounted on the tower structure and is shared with WCAX-TV (Ch. 20, Facility ID 46728, Burlington VT).¹ The shared site is atop Mount Mansfield, which is the highest mountain peak in Vermont and is utilized by other TV and FM transmitting facilities situated on various antenna supporting structures.

An emergency antenna has been installed on a separate tower structure located immediately adjacent to the WPTZ tower. The emergency antenna is broadband and will be shared by WPTZ and WCAX-TV. Connection to the emergency antenna and final checkout is presently underway and, pursuant to §73.1680, WPTZ will commence operation with this antenna as soon as the installation is complete. The emergency antenna will provide program service to the public until the main antenna can be replaced.

¹Through the use of split RF input feeds and dual combiners, the main antenna produces a directional pattern for WPTZ and a nondirectional pattern for WCAX-TV.



The emergency antenna is side-mounted on the tower structure utilized by WFFF-TV (Facility ID 10132, Burlington VT) and WVNY(DT) (Facility ID 11259, Burlington VT). The overall structure elevation is less than 61 meters above ground and passes the FCC's TOWAIR program for the transmitter location, thus FCC antenna structure registration is not necessary.

The emergency antenna is a horizontally polarized directional Dielectric model TFU-16WB-R C160 OS and the center of radiation is 16 meters above ground level. The directional antenna's azimuthal and elevation patterns are depicted in Figures 1 and 2, respectively.

The WPTZ emergency facility will operate at 250 kW ERP at 818 meters HAAT. The emergency facility provides 48 dBµ principal community contour coverage over Plattsburgh, and the 41 dBµ noise limited service contour does not extend beyond that of the licensed WPTZ, as depicted in Figure 3. The 48 dBµ principal community contour also encompasses Montpelier, VT, the principal community for channel sharing "guest" station WNNE(DT) (Facility ID 73344).

Regarding RF exposure, *Hearst* participates in a radiofrequency ("RF") electromagnetic field exposure safety program, along with other broadcasters and FCC licensees that utilize the Mount Mansfield site area. Following construction of the emergency facility, *Hearst* will conduct RF exposure measurements (and/or detailed calculations) to evaluate the level of RF exposure resulting from the emergency facility. As necessary, based on these results and considering all emitters, appropriate exposure abatement procedures will be established and followed, in order to comply with the FCC's exposure limits. Such abatement procedures may involve the restriction of access to certain areas and/or facility modifications to reduce RF levels.

Deep snow cover hampers site access and the access road is closed in winter months. Owing to the winter weather which is now in season at Mount Mansfield, the applicant considers access to the site area to presently be controlled as it is a remote location, surrounded by steep terrain, with access only via snowmobile, snowcat, or other specialized equipment. These factors serve to discourage and restrict casual access, therefore the site is not likely to be visited by the public at this time.



Considering the post-construction measurement and an appropriate abatement program, the general public and workers will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will be posted as needed. With respect to worker safety, authorized personnel will be trained and/or supervised as necessary for access to any "controlled" areas. *Hearst* will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower, or antenna from RF electromagnetic field exposure in excess of FCC guidelines. This exhibit is limited to the evaluation of exposure to RF electromagnetic field.

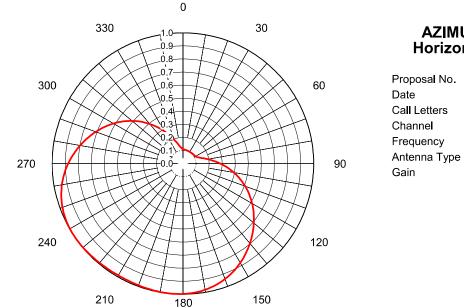
List of Attachments

Figure 1	STA Antenna Azimuthal Pattern
Figure 2	STA Antenna Elevation Pattern
Figure 3	Proposed STA Coverage Contours

Chesapeake RF Consultants, LLC

Joseph M. Davis, P.E.	November 28, 2019	
207 Old Dominion Road	Yorktown, VA 23692	703-650-9600

Dielectric



AZIMUTH PATTERN Horizontal Polarization

C-71435-1
 21-Nov-19
 WPTZ
 14
 473 MHz
 e TFU-16WB-R C160 OS
 2.2 (3.42dB)
 Calculated

Deg	Value																		
0	0.111	36	0.103	72	0.142	108	0.485	144	0.831	180	0.998	216	0.990	252	0.975	288	0.728	324	0.351
1	0.110	37	0.104	73	0.147	109	0.496	145	0.839	181	0.999	217	0.990	253	0.972	289	0.719	325	0.340
2	0.110	38	0.104	74	0.152	110	0.507	146	0.847	182	0.999	218	0.991	254	0.968	290	0.710	326	0.329
3	0.109	39	0.104	75	0.158	111	0.518	147	0.855	183	0.999	219	0.991	255	0.964	291	0.700	327	0.318
4	0.108	40	0.104	76	0.164	112	0.528	148	0.862	184	0.999	220	0.992	256	0.960	292	0.691	328	0.307
5	0.108	41	0.104	77	0.171	113	0.539	149	0.870	185	0.999	221	0.992	257	0.955	293	0.682	329	0.297
6	0.107	42	0.104	78	0.178	114	0.550	150	0.877	186	0.999	222	0.993	258	0.951	294	0.672	330	0.286
7	0.107	43	0.105	79	0.185	115	0.560	151	0.885	187	0.999	223	0.994	259	0.946	295	0.662	331	0.276
8	0.107	44	0.105	80	0.193	116	0.571	152	0.892	188	0.999	224	0.995	260	0.941	296	0.653	332	0.266
9	0.107	45	0.105	81	0.201	117	0.581	153	0.898	189	0.998	225	0.995	261	0.935	297	0.643	333	0.256
10	0.106	46	0.105	82	0.209	118	0.591	154	0.905	190	0.998	226	0.996	262	0.930	298	0.633	334	0.246
11	0.106	47	0.105	83	0.218	119	0.602	155	0.911	191	0.997	227	0.997	263	0.924	299	0.623	335	0.236
12	0.106	48	0.105	84	0.227	120	0.612	156	0.918	192	0.997	228	0.997	264	0.918	300	0.613	336	0.227
13	0.106	49	0.106	85	0.236	121	0.622	157	0.924	193	0.996	229	0.998	265	0.912	301	0.603	337	0.218
14	0.105	50	0.106	86	0.245	122	0.632	158	0.930	194	0.995	230	0.998	266	0.905	302	0.593	338	0.210
15	0.105	51	0.106	87	0.255	123	0.641	159	0.935	195	0.995	231	0.999	267	0.899	303	0.583	339	0.201
16	0.105	52	0.106	88	0.265	124	0.651	160	0.941	196	0.994	232	0.999	268	0.892	304	0.572	340	0.193
17	0.105	53	0.107	89	0.275	125	0.661	161	0.946	197	0.993	233	1.000	269	0.885	305	0.562	341	0.186
18	0.105	54	0.107	90	0.286	126	0.670	162	0.951	198	0.993	234	1.000	270	0.878	306	0.551	342	0.178
19	0.104	55	0.107	91	0.296	127	0.680	163	0.955	199	0.992	235	1.000	271	0.870	307	0.541	343	0.171
20	0.104	56	0.108	92	0.307	128	0.690	164	0.960	200	0.991	236	1.000	272	0.863	308	0.530	344	0.165
21	0.104	57	0.108	93	0.318	129	0.699	165	0.964	201	0.991	237	1.000	273	0.855	309	0.519	345	0.159
22	0.104	58	0.109	94	0.328	130	0.708	166	0.968	202	0.990	238	0.999	274	0.848	310	0.508	346	0.153
23	0.104	59	0.110	95	0.339	131	0.718	167	0.971	203	0.990	239	0.999	275	0.840	311	0.497	347	0.148
24	0.104	60	0.111	96	0.351	132	0.727	168	0.975	204	0.989	240	0.998	276	0.832	312	0.486	348	0.143
25	0.103	61	0.112	97	0.362	133	0.736	169	0.978	205	0.989	241	0.998	277	0.824	313	0.475	349	0.138
26	0.103	62	0.113	98	0.373	134	0.745	170	0.981	206	0.989	242	0.997	278	0.815	314	0.464	350	0.134
27	0.103	63	0.115	99	0.384	135	0.754	171	0.984	207	0.988	243	0.995	279	0.807	315	0.453	351	0.130
28	0.103	64	0.116	100	0.395	136	0.763	172	0.986	208	0.988	244	0.994	280	0.799	316	0.442	352	0.127
29	0.103	65	0.118	101	0.407	137	0.772	173	0.988	209	0.988	245	0.993	281	0.790	317	0.430	353	0.124
30	0.103	66	0.121	102	0.418	138	0.780	174	0.990	210	0.988	246	0.991	282	0.781	318	0.419	354	0.121
31	0.103	67	0.123	103	0.429	139	0.789	175	0.992	211	0.988	247	0.989	283	0.773	319	0.408	355	0.119
32	0.103	68	0.126	104	0.440	140	0.798	176	0.994	212	0.988	248	0.986	284	0.764	320	0.396	356	0.117
33	0.103	69	0.130	105	0.452	141	0.806	177	0.995	213	0.989	249	0.984	285	0.755	321	0.385	357	0.115
34	0.103	70	0.134	106	0.463	142	0.815	178	0.996	214	0.989	250	0.981	286	0.746	322	0.374	358	0.114
35	0.103	71	0.138	107	0.474	143	0.823	179	0.997	215	0.989	251	0.978	287	0.737	323	0.363	359	0.112

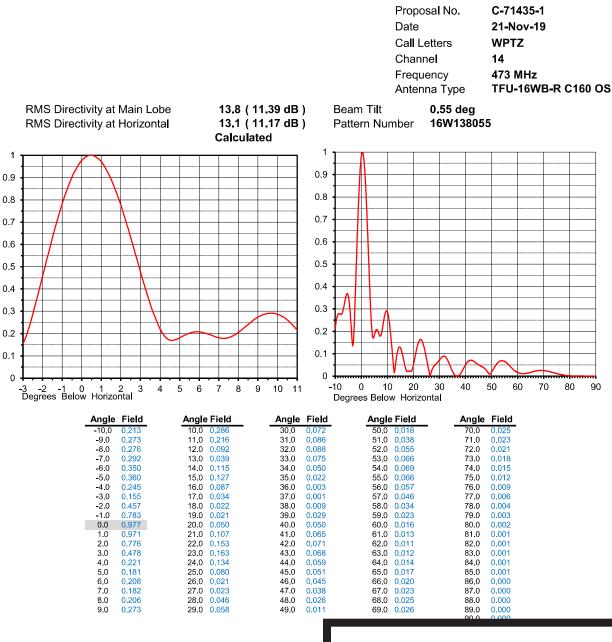
Figure 1 STA Antenna Azimuthal Pattern WPTZ(DT) Plattsburgh, NY Facility ID 57476 Ch. 14 250 kW 818 m

prepared for Hearst Stations Inc.

November, 2019



Dielectric



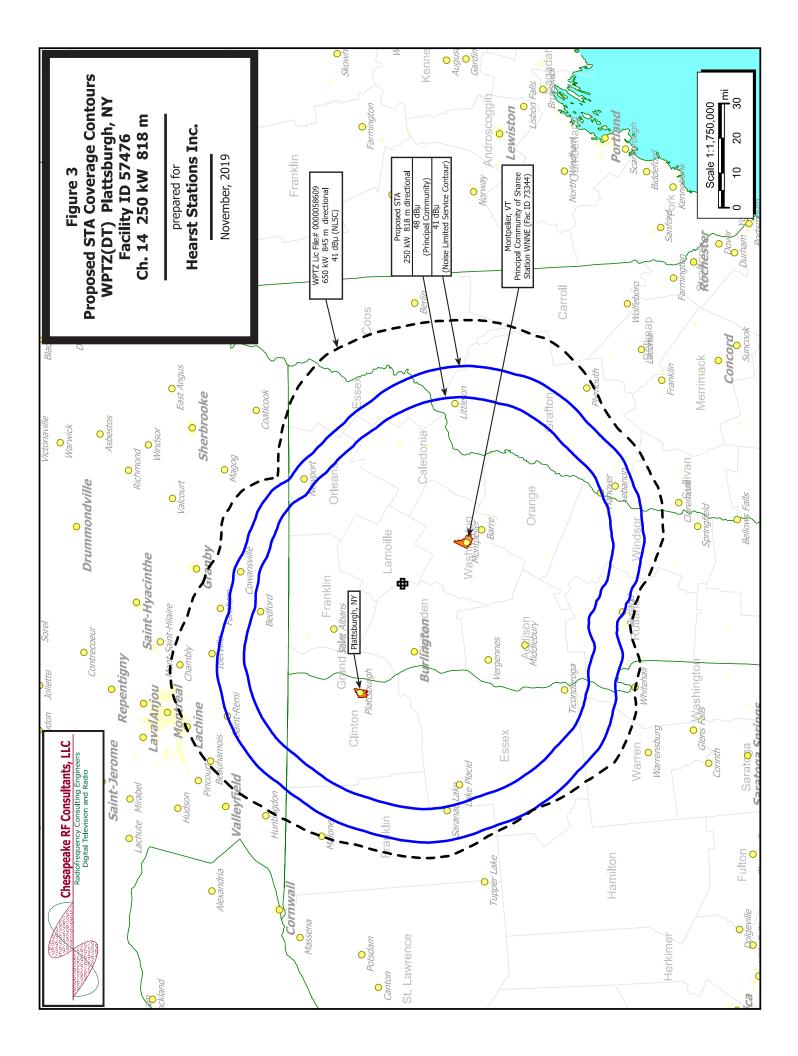
ELEVATION PATTERN



Figure 2 STA Antenna Elevation Pattern WPTZ(DT) Plattsburgh, NY Facility ID 57476 Ch. 14 250 kW 818 m

> prepared for Hearst Stations Inc.

> > November, 2019



Notification of Silent Status and Use of Emergency Antenna, and Request for STA to Operate at Variance from Channel Share License

This filing is to notify the Commission that WPTZ, Plattsburgh, New York (Fac. ID No. 57476) and its co-owned sharee station WNNE, Montpelier, Vermont (Fac. ID No. 73344) have been silent since November 19, 2019, as the result of a catastrophic antenna fire that rendered the antenna (which is shared with WCAX-TV, Burlington, Vermont, Fac. ID No. 46728) unusable and irreparable. *See, e.g.*, <u>https://www.mynbc5.com/article/transmitter-fire-interrupts-nbc5-wcax-channel-5-3-signal/29850474</u> and <u>https://www.tvtechnology.com/news/wcax-wptz-nearly-back-on-air-after-fire</u>.

Over the past ten days, WPTZ/WNNE has been working with the other stakeholders at the shared site to restore service to the public as soon as possible. While great progress has been made, service had not been restored as of the time of this filing on November 29, 2019, and it is unclear whether service will be restored on November 29, November 30, or a date shortly thereafter. As of this filing on November 29, the installation of an emergency antenna and associated equipment are nearly complete, and operations could begin at any time, so long as the weather cooperates and the technical plant functions as expected.

Thus, this filing shall serve as notification to the Commission, pursuant to Rule Section 73.1680, that (i) WPTZ/WNNE has been silent since November 19, 2019, for reasons beyond its control, (ii) an emergency antenna will be put into operation as soon as possible to restore service to the public, and (iii) WPTZ/WNNE respectfully requests STA to operate at the technical parameters set forth in this STA application for a period of six months. WCAX-TV, which shared the destroyed antenna with WPTZ/WNNE, already filed earlier today (November 29) a similar request for STA in LMS File No. <u>0000091889</u>.

* * * * *

Electronic Form 159

Electronic Form 159





Payment Confirmation

Your transaction has been approved. For your records, please note the following:

Federal

Communications Commission

AGENCY TRACKING ID: PGC3328612 **AUTHORIZATION NUMBER :** 057854 **AMOUNT PAID:** \$200.00 PRINT FORM 159 CLOSE **Customer Service** FCC Fees Web Policies / Privacy FCC Home Page Policy

If you have any questions or concerns please contact your licensing system help desk.

Agency Tracking ID:PGC3328612 Authorization Number:057854 Successful Authorization -- Date Paid: 11/29/19 FILE COPY ONLY!!

READ INSTRUCTIONS CAREFULLY BEFORE	FEDERAL COMMUNICATIONS COMMISSION					APPROVED BY OMB 3060-059			
PROCEEDING	REMITTANCE ADVICE					E			
	FORM 159 PAGE NO 1 OF 1				ECOLUSE ON	1. 37			
(1) LOCKBOX # 979089	PAGE NO I OF I				FCC USE ON	LY			
· · · · · · · · · · · · · · · · · · ·	SECTIO	NA-P	ayer Information						
(2) PAYER NAME (if paying by credit c	ard, enter name exactly as it appears on y	our car	d)			T PAID (dollars and cents)			
Hearst Television Inc.				\$20	J.00				
(4) STREET ADDRESS LINE NO. 1									
300 West 57th Street									
(5) STREET ADDRESS LINE NO. 2									
(6) CITY				7) STATE	· · · ·) ZIP CODE			
New York				NY		0019			
(9) DAYTIME TELEPHONE NUMBER 919-8390300	R (INCLUDING AREA CODE)		(10) COUNT US	RY CODE (IF	NOT IN U.S.A.))			
FCC 3	REGISTRATION NUMBER (FRN) A	ND TA	X IDENTIFICATION NU	MBER (TIN)	REQUIRED				
(11) PAYER (FRN)			(12) FCC USE ONLY						
0001675974									
IFI	PAYER NAME AND THE APPLICAN IF MORE THAN ONE APPLICAN								
(13) APPLICANT NAME		2,002			(,, ,)				
Hearst Stations Inc.									
(14) STREET ADDRESS LINE NO. 1									
PO Box 1800									
(15) STREET ADDRESS LINE NO. 2									
(16) CITY			(1	7) STATE	(15	8) ZIP CODE			
Raleigh				C		7602			
(19) DAYTIME TELEPHONE NUMBE	R (INCLUDING AREA CODE)			RY CODE (IF 1	NOT IN U.S.A.))			
+1 (919) 839-0300			US						
f	REGISTRATION NUMBER (FRN) A	ND TA		MBER (TIN)	REQUIRED				
(21) APPLICANT (FRN) 0001587583			(22) FCC USE ONLY						
J	SECTION C FOR EACH SERVICE, I	IF MOI	 RE BOXES ARE NEEDE	D USE CON	FINILATION S	HFFT			
(23A) FCC Call Sign/Other ID	SECTION CTOR EACH SERVICE,		(24A) Payment Type Cod			(25A) Quantity			
				MGT		1			
(26A) Fee Due for (PTC)			(27A) Total Fee			FCC Use Only			
\$	\$200.00		\$	200.00					
(28A) FCC CODE 1	476	(29A)	FCC CODE 2	I MCOOO	0001034				
5/2	476			LNISUUU	0091924				
(23B) FCC Call Sign/Other ID			(24B) Payment Type Cod	e(PTC)		(25B) Quantity			
(26B) Fee Due for (PTC)			(27B) Total Fee			FCC Use Only			
(28B) FCC CODE 1		(29B)	FCC CODE 2						
		<u> </u>							

Carol Heynen Wooten

From:	notification@pay.gov
Sent:	Friday, November 29, 2019 12:09 PM
То:	Carol Heynen Wooten
Subject:	Pay.gov Payment Confirmation: Remittance Advice

Your payment has been submitted to <u>Pay.gov</u> and the details are below. If you have any questions or you wish to cancel this payment, please contact FCC Financial Operations Group Help Desk at ARINQUIRIES@fcc.gov at 877-480-3201 option 6.

Application Name: Remittance Advice <u>Pay.gov</u> Tracking ID: 26LQP2CI Agency Tracking ID: PGC3328612 Transaction Type: Sale Transaction Date: Nov 29, 2019 12:09:25 PM

Account Holder Name: Hearst Television Inc. Transaction Amount: \$200.00 Card Type: Visa Card Number: ********1346

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.