



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: **0000013466** | Submit Date: **08/05/2016** | Call Sign: **KWYB** | Facility ID: **14674** | FRN: **0023011828** | State: **Montana** | City: **BUTTE**
 Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **08/09/2016** | Expiration Date: **02/09/2017**
 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	\$190.00
Total		\$190.00

**Applicant
Information**

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
COWLES MONTANA MEDIA COMPANY Doing Business As: COWLES MONTANA MEDIA COMPANY	Paul Caryl 1201 W. Sprague Avenue SPOKANE, WA 99201 United States	+1 (509) 448- 6000	paul.caryl@khq. 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
PAUL CARYL <i>Director of Engineering</i> Cowles Montana Media Company	PO Box 600 Spokane, WA 99210 United States	+1 (509) 448- 6000	khq.inc@khq.com	Technical Representative
DAVID H. PAWLIK , ESQ. . <i>Legal Counsel</i> David H. Pawlik	1513 Defoe Street Rockville, MD 20850 United States	+1 (301) 340- 3329	Dave@dhpawlik. com	Legal Representative

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	14674
	State	Montana
	City	BUTTE
	DTV Channel	19
	Designated Market Area	Butte-Bozeman
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?	Yes
	ASR Number	1051224
Coordinates (NAD83)	Latitude	46° 00' 23.7" N+
	Longitude	112° 26' 33.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	86.3 meters
	Support Structure Height	85.0 meters
	Ground Elevation (AMSL)	2492.9 meters
Antenna Data	Height of Radiation Center Above Ground Level	80 meters
	Height of Radiation Center Above Average Terrain	585.2 meters
	Height of Radiation Center Above Mean Sea Level	2572.9 meters
	Effective Radiated Power	46.0 kW

**Antenna
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	83344
Antenna Manufacturer and Model	Manufacturer:	RFS
	Model	CUSTOM FCC ID 42948
	Rotation	0 degrees
	Electrical Beam Tilt	0.6
	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	0.278	90	0.829	180	0.333	270	0.491
10	0.229	100	0.947	190	0.285	280	0.51
20	0.218	110	1	200	0.333	290	0.549
30	0.261	120	0.97	210	0.315	300	0.562
40	0.269	130	0.842	220	0.209	310	0.502
50	0.224	140	0.755	230	0.209	320	0.376
60	0.264	150	0.736	240	0.325	330	0.265
70	0.466	160	0.677	250	0.42	340	0.273
80	0.658	170	0.514	260	0.469	350	0.303

Additional Azimuths

Degree	V _A
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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>Paul Caryl <i>Director of Engineering</i></p> <p>08/05/2016</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
KWYB180daySTA.pdf	Applicant	All Purpose	Purpose of STA