



(REFERENCE COPY - Not for submission)

# DTV Engineering STA Application

File Number: **0000078120** | Submit Date: **07/16/2019** | Call Sign: **WCIU-TV** | Facility ID: **71428** | FRN: **0009562265** | State: **Illinois** | City: **CHICAGO**  
 Service: **DTV** | Purpose: **Engineering STA** | Status: **Granted** | Status Date: **07/23/2019** | Expiration Date: **10/18/2019**  
 Filing Status: **Active**

**General Information**

Section	Question	Response
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**Fees, Waivers, and Exemptions**

Section	Question	Response
<b>Fees</b>	Is the applicant exempt from FCC application Fees?	No
	Indicate reason for fee exemption:	
<b>Waivers</b>	Does this filing request a waiver of the Commission's rule(s)?	Yes
	Total number of rule sections involved in this waiver request:	1

Application Type	Fee Code	Fee Amount
Engineering STA	MGT	\$200.00
<b>Total</b>		<b>\$200.00</b>

**Applicant  
Information**

**Applicant Name, Type, and Contact Information**

<b>Applicant</b>	<b>Address</b>	<b>Phone</b>	<b>Email</b>	<b>Applicant Type</b>
<b>WCIU-TV LIMITED PARTNERSHIP</b> Doing Business As: WCIU-TV LIMITED PARTNERSHIP	Norman Shapiro 26 NORTH HALSTED STREET CHICAGO, IL 60661 United States	+1 (312) 705-2600	NSHAPIRO@wciu.com	Limited Partnership

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**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
<b>Matthew S. DeINero , Esq .</b> <i>Legal Representative</i> Covington & Burling LLP	Matthew S. DeINero One CityCenter, 850 Tenth Street, NW Washington, DC 20001 United States	+1 (202) 662- 5543	mdelnero@cov. com	Legal Representative
<b>Louis R duTreil , Jr .</b> <i>Technical Consultant</i> duTreil Lundin & Rackley Inc	3135 Southgate Circle Sarasota, FL 34239 United States	+1 (941) 329- 6004	bobjr@DLR.com	Technical Representative

**Channel and Facility Information**

Section	Question	Response
<b>Proposed Community of License</b>	Facility ID	71428
	State	Illinois
	City	CHICAGO
	DTV Channel	27
	Designated Market Area	Chicago
<b>Facility Type</b>	Facility Type	Commercial
	Station Type	Main
<b>Zone</b>	Zone	1

**Antenna Location Data**

Section	Question	Response
<b>Antenna Structure Registration</b>	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1032960
<b>Coordinates (NAD83)</b>	Latitude	41° 52' 44.0" N+
	Longitude	087° 38' 08.0" W-
	Structure Type	BMAST-Building with MAST /ANTENNA on top
	Overall Structure Height	524.9 meters
	Support Structure Height	437.5 meters
	Ground Elevation (AMSL)	181.4 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	508.1 meters
	Height of Radiation Center Above Average Terrain	510 meters
	Height of Radiation Center Above Mean Sea Level	689.5 meters
	Effective Radiated Power	160 kW

**Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	45223
<b>Antenna Manufacturer and Model</b>	Manufacturer:	RFS
	Model	PHP24C
	Rotation	210 degrees
	Electrical Beam Tilt	1
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
<b>DTV and DTS: Elevation Pattern</b>	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
<b>0</b>	0.91	<b>90</b>	0.89	<b>180</b>	0.06	<b>270</b>	1
<b>10</b>	0.88	<b>100</b>	0.93	<b>190</b>	0.08	<b>280</b>	0.96
<b>20</b>	0.81	<b>110</b>	0.88	<b>200</b>	0.21	<b>290</b>	0.92
<b>30</b>	0.82	<b>120</b>	0.72	<b>210</b>	0.27	<b>300</b>	0.93
<b>40</b>	0.92	<b>130</b>	0.52	<b>220</b>	0.39	<b>310</b>	0.97
<b>50</b>	0.94	<b>140</b>	0.36	<b>230</b>	0.54	<b>320</b>	0.92
<b>60</b>	0.87	<b>150</b>	0.3	<b>240</b>	0.68	<b>330</b>	0.78
<b>70</b>	0.83	<b>160</b>	0.19	<b>250</b>	0.85	<b>340</b>	0.73
<b>80</b>	0.86	<b>170</b>	0.08	<b>260</b>	0.97	<b>350</b>	0.82

**Additional Azimuths**

Degree	V <sub>A</sub>
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**Certification**

Section	Question	Response
<p><b>General Certification Statements</b></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><b>Authorized Party to Sign</b></p>	<p><b>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</b></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><b>Norman H. Shapiro</b>  <i>Pres. Sec. Treas. of            General Partner</i></p> <p>07/16/2019</p>

**Attachments**

<b>File Name</b>	<b>Uploaded By</b>	<b>Attachment Type</b>	<b>Description</b>
<u>ChicagoIL_WCIU_27_STA_Coverage_Contours.pdf</u>	Applicant	All Purpose	PREDICTED COVERAGE CONTOURS
<u>ChicagoIL_WCIU_27_STA_RF_Hazard_Statement.pdf</u>	Applicant	All Purpose	RF HAZARD STATEMENT
<u>ChicagoIL_WCIU_27_STA_Technical_Summary.pdf</u>	Applicant	General Information	TECHNICAL SUMMARY
<u>ChicagoIL_WCIU_27_STA_Technical_Summary.pdf</u>	Applicant	Fees, Waivers and Exemptions	TECHNICAL SUMMARY
<u>ChicagoIL_WCIU_27_STA_TVStudy_Analysis.pdf</u>	Applicant	All Purpose	TVSTUDY ANALYSIS