



(REFERENCE COPY - Not for submission)

## License To Cover for DTS Application

File Number: **BLEDT-20120615ACE** | Submit Date: **06/15/2012** | Call Sign: **WUNF-TV** | Facility ID: **69300** | FRN:  
**0001910066** | State: **North Carolina** | City: **ASHEVILLE**  
Service: **DTS** | Purpose: **License To Cover** | Status: **Granted** | Status Date: **09/05/2012** | Expiration Date: **12/01/2020** |  
Filing Status: **Active**

### General Information

Section	Question	Response
<b>Attachments</b>	Are attachments (other than associated schedules) being filed with this application?	

### Fees, Waivers, and Exemptions

Section	Question	Response
<b>Waivers</b>	Does this filing request a waiver of the Commission's rule(s)?	
	Total number of rule sections involved in this waiver request:	
	Are the frequencies or parameters requested in this filing covered by grandfathered privileges, previously approved by waiver, or functionally integrated with an existing station?	

**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>UNIVERSITY OF NORTH CAROLINA Applicant</b> Doing Business As: UNIVERSITY OF NORTH CAROLINA	P.O. BOX 14900 RESEARCH TRIANGLE PA, NC 27709 United States	+1 (919) 549-7000		Other

**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>DONALD W. SMITH</b> <i>CHIEF ENGINEER NETWORK</i>	P.O. BOX 14900 10 T.W. ALEXANDER DRIVE RESEARCH TRIANGLE PK, NC 27709 United States	+1 (919) 549-7025	DSMITH@UNCTV.ORG	Technical Representative
<b>MARCUS W. TRATHEN</b> BROOKS, PIERCE, ET AL.	P.O. BOX 1800 RALEIGH, NC 27602 United States	+1 (919) 839-0300	MTRATHEN@BROOKSPIERCE. COM	Legal Representative

## Alien Ownership

Question	Response
1) Is the applicant a foreign government or the representative of any foreign government as specified in Section 310(a) of the Communications Act?	
2) Is the applicant an alien or the representative of an alien? (Section 310(b)(1))	
3) Is the applicant a corporation, or non-corporate entity, that is organized under the laws of any foreign government? (Section 310(b)(2))	
4) Is the applicant an entity of which more than one-fifth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any entity organized under the laws of a foreign country? (Section 310(b)(3))	
5) Is the applicant directly or indirectly controlled by any other entity of which more than one-fourth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any entity organized under the laws of a foreign country? (Section 310(b)(4))	
6) Has the applicant received a declaratory ruling(s) under Section 310(b)(4) of the Communications Act?	
6a) Enter the citation of the applicable declaratory ruling by DA/FCC number, FCC Record citation, release date, or any other identifying information.	
7) Has there been any change in the applicant's foreign ownership since issuance of the declaratory ruling(s) cited in response to Question 6?	
7a) Enter the File or Docket Number of the Petition for Declaratory Ruling that the applicant has filed for its foreign ownership in connection with this application pursuant to Section 310(b)(4) of the Communications Act. It is not necessary to file a request for a foreign ownership declaratory ruling if the applicant attaches a showing that the requested authorization(s) is exempt from the provisions of Section 310(b)(4).	
8) Does the applicant certify that it is in compliance with the terms and conditions of the foreign ownership declaratory ruling(s) cited in response to Question 6?	
9) In connection with this application, is the applicant filing a foreign ownership Petition for Declaratory Ruling pursuant to Section 310(b)(4) of the Communications Act?	

## Basic Qualifying Questions

Section	Question	Response
<b>Revoked Application</b>	Has the Applicant or any party to this application had any FCC station Authorization revoked or had any application for an initial, modification or renewal of FCC station Authorization denied by the Commission?	
<b>State or Federal Convictions</b>	Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court?	

**Channel and Facility Information**

Section	Question	Response
<b>Proposed Community of License</b>	Facility ID	69300
	State	North Carolina
	City	ASHEVILLE
	DTS Channel	25
	Designated Market Area	Greenville-Spartanburg-Asheville-Anderson
<b>Facility Type</b>	Facility Type	Noncommercial Educational
	Station Type	Main
<b>Zone</b>	Zone	2

**DTS Reference Point**

Section	Question	Response
<b>Construction Permit File Number and Facility ID</b>	File Number for Current Authorized Service Area:	
	Facility ID	69300
<b>Coordinates (NAD83)</b>	Latitude	35° 25' 32.3" N+
	Longitude	082° 45' 24.4" W-

**Site 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	1035173
<b>Coordinates (NAD83)</b>	Latitude	35° 25' 32.0" N+
	Longitude	082° 45' 24.0" W-
	Structure Type	
	Overall Structure Height	103 meters
	Support Structure Height	
	Ground Elevation (AMSL)	1743 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	40 meters
	Height of Radiation Center Above Average Terrain	816 meters
	Height of Radiation Center Above Mean Sea Level	1783 meters
	Effective Radiated Power	125 kW

**Site 1: Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	108893
<b>Antenna Manufacturer and Model</b>	Manufacturer:	ERI
	Model	ATW12HS4-ETC170-25H
	Electrical Beam Tilt	1
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Elliptical
<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?	Yes
	Rotation	0 degrees
	Uploaded file for elevation antenna (or radiation) pattern data	

**Directional Antenna Relative Field Values (Pre-rotated Pattern)**

Degree	V <sub>A</sub> (Authorized Value)	Degree	V <sub>A</sub> (Authorized Value)	Degree	V <sub>A</sub> (Authorized Value)	Degree	V <sub>A</sub> (Authorized Value)
0	0.94	90	0.9	180	0.94	270	0.25
10	0.99	100	0.9	190	0.85	280	0.23
20	1	110	0.91	200	0.73	290	0.21
30	0.99	120	0.92	210	0.59	300	0.22
40	0.96	130	0.94	220	0.44	310	0.3
50	0.94	140	0.96	230	0.3	320	0.44
60	0.92	150	0.99	240	0.22	330	0.59
70	0.91	160	1	250	0.21	340	0.73
80	0.9	170	0.99	260	0.23	350	0.85

**Additional Azimuths**

Degree	V <sub>A</sub>
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**Site 1: Operating Constants**

Section	Question	Response
Transmitter and Transmission Line	Transmitter Power Output (TPO): <i>(average power at input to transmission line, after any filter attached to the transmitter, if used)</i>	8.98 dBk 7.9 kW
	Transmission Line Loss (LL):	0.34 dB
	Antenna Input Power (AIP):	8.63 dBk
	Max. Antenna Power Gain (AG)	12.34 dB
	Effective Radiated Power (ERP) <i>(Average Power)</i>	20.97 dBk 125 kW

**Site 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	35° 28' 25.3" N+
	Longitude	083° 19' 22.5" W-
	Structure Type	
	Overall Structure Height	30 meters
	Support Structure Height	
	Ground Elevation (AMSL)	735 meters
Antenna Data	Height of Radiation Center Above Ground Level	19 meters
	Height of Radiation Center Above Average Terrain	187 meters
	Height of Radiation Center Above Mean Sea Level	754 meters
	Effective Radiated Power	1.5 kW



**Site 2: Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	108894
<b>Antenna Manufacturer and Model</b>	Manufacturer:	SCA
	Model	4DR-8-2HW
	Electrical Beam Tilt	Not Applicable
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Elliptical
<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?	Yes
	Rotation	90 degrees
	Uploaded file for elevation antenna (or radiation) pattern data	

**Directional Antenna Relative Field Values (Pre-rotated Pattern)**

Degree	V <sub>A</sub> (Authorized Value)	Degree	V <sub>A</sub> (Authorized Value)	Degree	V <sub>A</sub> (Authorized Value)	Degree	V <sub>A</sub> (Authorized Value)
0	1	90	0.712	180	0.02	270	0.712
10	0.95	100	0.57	190	0.02	280	0.83
20	0.829	110	0.403	200	0.02	290	0.917
30	0.789	120	0.132	210	0.02	300	0.975
40	0.91	130	0.02	220	0.02	310	0.989
50	0.989	140	0.02	230	0.02	320	0.91
60	0.975	150	0.02	240	0.132	330	0.789
70	0.917	160	0.02	250	0.403	340	0.839
80	0.83	170	0.02	260	0.57	350	0.95

**Additional Azimuths**

Degree	V <sub>A</sub>
55	0.99
335	0.77
25	0.77

**Site 2: Operating Constants**

Section	Question	Response
Transmitter and Transmission Line	Transmitter Power Output (TPO): <i>(average power at input to transmission line, after any filter attached to the transmitter, if used)</i>	-6.38 dBk 0.23 kW
	Transmission Line Loss (LL):	0.37 dB
	Antenna Input Power (AIP):	-6.74 dBk
	Max. Antenna Power Gain (AG)	8.5 dB
	Effective Radiated Power (ERP) <i>(Average Power)</i>	1.76 dBk 1.5 kW

**Parties to the  
Application (0)**

Information not provided.

**Attributable Interest**

Section	Question	Response
<b>Equity and Financial Interests</b>	Applicant certifies that equity and financial interests not set forth by the applicant parties are non-attributable.	
<b>Other Authorizations</b>	Does the applicant or any party to the application have an attributable interest in any other broadcast station(s).	

**License  
Certifications**

Section	Question	Response
<b>Main Studio Location</b>	The main studio location complies with 47 C.F.R. Section 73.1125.	Yes
	Country	
	PO Box	
	Address Line 1	
	Address Line 2	
	City	
	Province/Region	
	Postal Code	
	Phone	
<b>Constructed Facility</b>	The facility constructed as authorized in the underlying construction permit.	Yes
<b>Special Operating Conditions</b>	The facility was constructed in compliance with all special operating conditions, terms, and obligations described in the construction permit. <b>An exhibit may be required.</b> Review the underlying construction permit.	Yes
<b>Transmitter</b>	The transmitter complies with 47 C.F.R. Section 73.1660.	Yes
<b>Changing Transmitter Power Output</b>	Is this application being filed to authorize a change in transmitter power output caused by the replacement of an omnidirectional antenna with another omnidirectional antenna or an alteration of the transmission line system? See 47 C.F.R. Sections 73.1690(c)(1) and (c)(10).	
<b>Replacing a Directional Antenna</b>	Is this application being filed pursuant to 47 C.F.R. Section 73.1690(c)(3) to replace a directional antenna with another directional antenna?	
	The proposed theoretical antenna pattern complies with 47 C.F.R. Section 73.1690(c)(3).	
<b>Use a formerly licensed main facility as an auxiliary facility</b>	Is this application being filed pursuant to 47 C.F.R. Section 73.1675(c)(1) to request authorization to use a formerly licensed main facility as an auxiliary facility and/or change the ERP of the proposed auxiliary facility?	
	The proposed auxiliary facility complies with 47 C.F.R. Section 73.1675(a).	
	Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? (See 47 C.F.R. Section 1.1306)	

**Legal  
Certifications**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Obligations</b>	Licensee/Permittee certifies that all terms, conditions, and obligations set forth in the underlying construction permit have been fully met.	Yes
	Licensee/Permittee certifies that, apart from changes already reported, no cause or circumstance has arisen since the grant of the underlying construction permit which would result in any statement or representation contained in the construction permit application to be now incorrect.	Yes
<b>Character Issues</b>	Applicant certifies that neither applicant nor any party to the application has or had any interest in, or connection with:  (a) any broadcast application in any proceeding where character issues were left in unresolved or were resolved adversely against the applicant or party to the application; or  (b) any pending broadcast application in which character issues have been raised.	Yes
<b>Adverse Findings</b>	Has the Applicant or any party to this application had an adverse finding or an adverse final action taken by any court or administrative body in a civil or criminal proceeding brought under any law related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination?	Yes

**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>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>WILLARD CAMPBELL</b></p> <p>06/15/2012</p>

## Attachments

Information not provided.