

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
STA for new T/R Earth Station

1. Applicant

**Name:** Louisiana Television Broadcasting, Phone Number: 225-387-2222  
LLC  
**DBA Name:** **Fax Number:** 225-336-2246  
**Street:** 1650 Highland Road **E-Mail:** Richard@WBRZ.COM  
PO Box 2906  
**City:** Baton Rouge **State:** LA  
**Country:** USA **Zipcode:** 70802  
**Attention:** Richard F. Manship



File # SES-STA-20180730-02073  
Call Sign W4868 Grant Date 8-15-18  
(or other identifier)  
Term Dates From: 8-15-18 To: 10-14-18  
Approved: [Signature]

<b>2. Contact</b>			
<b>Name:</b>	Stephen Hartzell	<b>Phone Number:</b>	9198390300
<b>Company:</b>	Brooks, Pierce et al.	<b>Fax Number:</b>	9198390304
<b>Street:</b>	150 Fayetteville Street Suite 1700	<b>E-Mail:</b>	shartzell@brookspierce.com
<b>City:</b>	Raleigh	<b>State:</b>	NC
<b>Country:</b>	USA	<b>Zipcode:</b>	27601 -
<b>Attention:</b>		<b>Relationship:</b>	Legal Counsel
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)			
3. Reference File Number or Submission ID			
4a. Is a fee submitted with this application?			
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).			
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee			
<input type="radio"/> Other (please explain):			
4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station			
5. Type Request			
<input checked="" type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input type="radio"/> Other			
6. Requested Use Prior Date			
08/10/2018			
7. City/Baton Rouge			
8. Latitude			
(dd mm ss.s h) 30 25 53.7 N			

9. State LA	10. Longitude (dd mm ss.s h) 91 11 7.4 W
11. Please supply any need attachments. Attachment 1: STA Request Exhibit Attachment 2: Attachment 3:	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 5px; margin: 5px 0;">This facility will be utilized for news and event coverage for the applicant's broadcast station(s).</div>	
13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application"; party to the application; for these purposes. Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Charles Jake Manship	15. Title of Person Signing Director, Owner
WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	

**FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT**

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to [PRA@fcc.gov](mailto:PRA@fcc.gov). PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

**THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.**



File # SES-STA-20180150-02073  
E4868  
Call Sign E4868 Grant Date 8-15-18  
(or other identifier)  
Term Dates  
From: 8-15-18 To: 10-14-18  
Approved: [Signature]

Applicant: Louisiana Television Broadcasting, LLC  
Call Sign: E4868  
File Number: SES-STA-20180730-02073  
Special Temporary Authority (STA)

Louisiana Television Broadcasting, LLC ("LTB") is granted special temporary authority for 60 days to operate the 10-meter Scientific Atlanta model 8002 antenna with the Permitted List satellites on 5925-6425 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth) frequency bands at geographical coordinates 30° 25' 53.7"N, 91° 11' 7.4"W (NAD-83) in Baton Rouge, Louisiana under the following conditions:

1. Operations will not exceed the operational power levels and parameters requested: emission designator 36M0F8W, maximum total input power at antenna flange of 450.0 Watts, maximum total output effective isotropic radiated power ("eirp") for all carriers of 80.0 dBW, maximum eirp per carrier of 26.5 dBW for analog modulated service, and transmit antenna gain of 53.5 dBi at 6.0 GHz center frequency.
2. Operations shall not cause harmful interference to, and shall not claim protection from interference caused to it by any other lawfully operating station, and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
3. Grant of this special temporary authority is without prejudice to any determination that the Commission may make regarding FCC IBFS file number SES-LIC- 20180810-02193.
4. Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector.
5. The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
6. Any action taken or expense incurred as a result of operations pursuant to this authority is solely at LTB's risk.

This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately.

**Request for Special Temporary Authority**  
**EXPEDITED PROCESSING REQUESTED**

Louisiana Television Broadcasting, LLC, (“LTB”) the licensee of full power television station WBRZ-TV, Baton Rouge, Louisiana, and the licensee of recently expired fixed earth station license E4868, hereby respectfully requests special temporary authority (“STA”), to be effective as soon as possible, to operate its fixed transmit-receive earth station at the parameters specified in the attached materials. (The attached materials consist of information being used for frequency coordination for the facility and the technical portion of a draft Form 312 new license application, which will be filed after frequency coordination is complete.) In connection herewith, LTB is preparing to file a new license application for a new license for the recently-expired E4868 facility, but cannot file the license application until frequency coordination for the facility is complete.

In mid-July, more than 30 days after the expiration of the E4868 license, it was discovered that a timely filing for the E4868 license had not been made. Moreover, because more than 30 days had passed since the expiration of the E4868 license, the reinstatement provisions of Section 25.163(a) are not available to LTB. Hence the need to file both a new license application (which, to reiterate, will be filed after frequency coordination is complete) and the instant STA request. Grant of the instant STA request would be in the public interest because it would permit LTB to use the transmit functionality of the facility during the frequency coordination period and the subsequent pendency of the new license application.

LTB’s use of the fixed transmit-receive dish that is the subject of the STA request is intermittent. Generally, LTB’s use of the transmit functionality occurs only on an on-demand basis, when there is news and information content (including but not limited to live interviews, local hurricane/storm coverage, election night coverage) to share with programming partners such as broadcast and cable networks and other broadcast stations. To be clear, LTB has not used the uplink (transmit) capability of the fixed earth station since the discovery of the expiration of the license.

Please note that this STA request is being filed (and the new license application will be filed) using the licensee’s name Louisiana Television Broadcasting, LLC. According to the International Bureau’s online records in IBFS, the E4868 license is still held in the name of Louisiana Television Broadcasting, Inc. It is unclear why the licensee’s old name is still in use for this facility; a pro forma assignment application was timely filed in 1999, granted in 2000, and consummation of the assignment is acknowledged in IBFS as follows:

RF HAZARD STATEMENT  
C-BAND FIXED EARTH STATION  
LOUISIANA TELEVISION BROADCASTING, LLC  
BATON ROUGE, LOUISIANA

This Engineering Statement was prepared on behalf of Louisiana Television Broadcasting, LLC, in support of an evaluation of the radio frequency (RF) environment in the vicinity of a C-Band fixed earth station antenna. This statement details compliance with Section 1.1307(b) of the FCC Rules concerning human exposure RF energy. This statement also details the RF safety work rules for the safe operation of the proposed facility.

Background

The proposed facility will transmit in the C-Band with a maximum EIRP of 81.5 dBW. The facility will employ a Scientific Atlanta model 8200 10.0-meter diameter aperture antenna, which is mounted on the ground on a concrete foundation. The antenna has a maximum overall height of 11.71 m above ground level with an antenna centerline height of 6.71 m above ground level.

Calculated RF Exposure Levels

Based on Section 73.1310 of the FCC Rules, the pertinent maximum permissible exposure (MPE) limits for the subject facility are as follows:

Frequency (MHz)	MPE for General Population/Uncontrolled Exposure (mW/cm <sup>2</sup> )	MPE for Occupational / Controlled Exposure (mW/cm <sup>2</sup> )
5,925 – 6,425	1.0	5.0

Calculations of RF exposure were conducted pursuant to the FCC's OET Bulletin No. 65, *Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields* (Edition 97-01, August 1997). The following parameters were employed in the calculations:

Antenna Gain = 53.5 dBi  
Frequency = 6,175 MHz  
Diameter = 10.0 m = 1000 cm  
Maximum Input Power = 631 watts = 631,000 mW  
Efficiency Factor (calculated) = 0.54

The following is calculated based on the equations contained in FCC OET Bulletin No. 65:

Extent of near-field,  $R_{nf} = 514.6$  m  
Maximum on-axis near-field power density,  $S_{nf} = 1.72$  mW/cm<sup>2</sup>  
Distance to beginning of far-field,  $R_{ff} = 1,235$  m  
Far-field on-axis power density,  $S_{ff} = 0.74$  mW/cm<sup>2</sup>

Based on FCC OET Bulletin No. 65, "for off-axis calculations in the near-field and in the transition region it can be assumed that, if the point of interest is at least one antenna diameter removed from the center of the main beam, the power density at that point would be at least a factor 100 (20 dB) less than the value calculated for the equivalent distance in the main beam."\* At one antenna diameter distance (10 m) cylindrically off-axis from the antenna main beam, the power density level would, therefore, be less than ( $S_{nf}/100=$ ) 0.017 mW/cm<sup>2</sup>.

For areas in the vicinity of the antenna, calculations based on simple far-field calculations were used to estimate the RF exposure levels for locations located from 48° and greater off-axis.† Based on these calculations, the general population / uncontrolled environment requirement of 1.0 mW/cm<sup>2</sup> would be met at distances exceeding 0.75 m (2.5 ft.) from the dish.

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\* See ¶2 on Page 30 of OET Bulletin No. 65.

† See ¶3 on Page 30 of OET Bulletin No. 65 with reference to Equation 18 on Page 29.



Based on the above, the area within 10 meters or greater located cylindrically from the center of the main beam, and within 0.75 m (2.5 ft.) at 48° or greater off-axis from the dish itself, shall be restricted from access and properly posted warning signs. RF energy levels outside of the restricted area will be below the FCC MPE for general population / uncontrolled environments. Therefore, the proposed facility meets the requirements of Section 1.1307(b) concerning human exposure to RF energy.

Work Rules for Control of RF Exposure

All persons must adhere to the following work rules for compliance with the FCC guidelines for human exposure RF energy.

1. No persons shall be within the restricted area surrounding the earth station antenna when it is transmitting.
2. In the event persons are required to enter the restricted area surrounding the earth station antenna, the antenna transmissions shall be terminated until all persons exit the restricted area.
3. The applicant shall ensure that no building or other obstacles will be in the areas that exceed the MPE levels.



Louis R. du Treil, Jr., P.E.

du Treil, Lundin & Rackley, Inc.  
3135 Southgate Circle  
Sarasota, FL 34239

July 26, 2018



**COMSEARCH**

A CommScope Company

July 25, 2018

Re: Louisiana Television Broadcasting, Inc.  
BATON ROUGE, LA  
Call Sign: E4868 Re-file  
C-Band Transmit-Receive Earth Station  
Job Number: 180725COMSGE06

\*\*\*\*\* Re-file of Expired Call Sign \*\*\*\*\*

Dear Frequency Coordinator:

This notice is being provided in accordance with Section 25.203(c) of the FCC Rules and Regulations. We are forwarding the attached revised coordination data on behalf of Louisiana Television Broadcasting, Inc. for the re-file of their existing C-Band Transmit-Receive Earth Station in BATON ROUGE, LA.

The coordination notice is being circulated to the owners (or their protection agents) of all existing or proposed terrestrial facilities operating in a shared frequency band within the coordination contours of the proposed station(s). Please update your database with the attached information.

We respectfully request that you examine this data for its interference potential with your system(s). In the event that your analysis identifies potential interference cases that were not previously reported, please contact us by August 29, 2018.

If there are any questions concerning this coordination notice, please contact Comsearch.

Sincerely,

COMSEARCH

Gary K. Edwards  
Senior Manager  
gedwards@comsearch.com

Enclosure(s)

Date: 07/25/2018  
 Job Number: 180725COMSGE06

**Administrative Information**

Status: ENGINEER PROPOSAL  
 Call Sign: E4868  
 Licensee Code: LOUTEL  
 Licensee Name: Louisiana Television Broadcasting, Inc.

**Site Information** **BATON ROUGE, LA**

Venue Name:  
 Latitude (NAD 83): 30° 25' 53.7" N  
 Longitude (NAD 83): 91° 11' 7.4" W  
 Climate Zone: B  
 Rain Zone: 1  
 Ground Elevation (AMSL): 10.67 m / 35.0 ft

**Link Information**

Satellite Type: Geostationary  
 Mode: TR - Transmit-Receive  
 Modulation: Analog  
 Satellite Arc: 70° W to 145° West Longitude  
 Azimuth Range: 142.6° to 249.7°  
 Corresponding Elevation Angles: 47.7° / 22.6°  
 Antenna Centerline (AGL): 6.71 m / 22.0 ft

**Antenna Information**

	<b>Receive - S41001</b>	<b>Transmit - S61001</b>
Manufacturer	SCIENTIFIC-ATLANTA, INC	SCIENTIFIC-ATLANTA, INC
Model	8002-SHORT MOUNT	8002-SHORT MOUNT
Gain / Diameter	50.8 dBi / 10.0 m	53.5 dBi / 10.0 m
3-dB / 15-dB Beamwidth	0.60° / 1.00°	0.32° / 0.70°

Max Available RF Power	(dBW/4 kHz)	1.0
	(dBW/MHz)	25.0

Maximum EIRP	(dBW/4 kHz)	54.5
	(dBW/MHz)	78.5

Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz
	20%			
	Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz
	0.0025%			

**Frequency Information**

<b>Receive 4.0 GHz</b>	<b>Transmit 6.1 GHz</b>
Emission / Frequency Range (MHz)	
36M0F8W / 3700.0 - 4200.0	36M0F8W / 5925.0 - 6425.0

Max Great Circle Coordination Distance	520.3 km / 323.3 mi	274.8 km / 170.7 mi
Precipitation Scatter Contour Radius	573.6 km / 356.4 mi	204.4 km / 127.0 mi

Coordination Values		BATON ROUGE, LA			
Licensee Name	Louisiana Television Broadcasting, Inc.				
Latitude (NAD 83)	30° 25' 53.7" N				
Longitude (NAD 83)	91° 11' 7.4" W				
Ground Elevation (AMSL)	10.67 m / 35.0 ft				
Antenna Centerline (AGL)	6.71 m / 22.0 ft				
Antenna Model	SCIENTIFIC-ATLANTA, INC 8002-SHORT MOUNT				
Antenna Mode	Receive 4.0 GHz		Transmit 6.1 GHz		
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	
	0.0025%				
Max Available RF Power	1.0 (dBW/4 kHz)				

Azimuth (°)	Transmit 6.1 GHz			Receive 4.0 GHz		
	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	108.71	-10.20	409.73	-9.50	225.86
5	0.00	113.27	-10.20	409.73	-9.50	225.86
10	0.00	117.11	-10.20	409.73	-10.76	218.07
15	0.00	114.25	-10.20	409.73	-9.50	225.86
20	0.00	111.26	-10.20	409.73	-9.50	225.86
25	0.00	108.17	-10.20	409.73	-9.50	225.86
30	0.00	104.99	-10.20	409.73	-9.50	225.86
35	0.00	101.74	-10.20	409.73	-9.50	225.86
40	0.00	98.43	-10.20	409.73	-9.50	225.86
45	0.00	95.10	-10.20	409.73	-9.50	225.86
50	0.00	91.74	-10.20	409.73	-9.50	225.86
55	0.00	88.37	-10.20	409.73	-9.50	225.86
60	0.00	85.01	-10.20	409.73	-9.50	225.86
65	0.00	81.67	-10.20	409.73	-9.50	225.86
70	0.00	78.37	-10.20	409.73	-9.50	225.86
75	0.00	75.12	-10.20	409.73	-9.50	225.86
80	0.00	71.93	-10.20	409.73	-9.50	225.86
85	0.00	68.83	-10.20	409.73	-9.50	225.86
90	0.00	65.84	-10.20	409.73	-9.50	225.86
95	0.00	62.98	-10.20	409.73	-9.50	225.86
100	0.00	60.27	-10.20	409.73	-9.50	225.86
105	0.00	57.74	-10.20	409.73	-9.50	225.86
110	0.00	55.42	-10.20	409.73	-9.50	225.86
115	0.00	53.35	-10.20	409.73	-9.50	225.86
120	0.00	51.55	-10.20	409.73	-9.50	225.86
125	0.00	50.06	-10.20	409.73	-9.50	225.86
130	0.00	48.91	-9.98	412.43	-9.50	225.86
135	0.00	48.12	-9.82	414.39	-9.50	225.86
140	0.00	47.72	-9.74	415.39	-9.50	225.86
145	0.00	47.71	-9.74	415.41	-9.50	225.86
150	0.00	48.10	-9.82	414.44	-9.50	225.86
155	0.00	48.88	-9.98	412.51	-9.50	225.86
160	0.00	50.02	-10.20	409.73	-9.50	225.86
165	0.00	51.50	-10.20	409.73	-9.50	225.86
170	0.00	53.12	-10.20	409.73	-9.50	225.86
175	0.00	54.18	-10.20	409.73	-9.50	225.86
180	0.00	54.54	-10.20	409.73	-9.50	225.86
185	0.00	54.18	-10.20	409.73	-9.50	225.86

<b>Coordination Values</b>		<b>BATON ROUGE, LA</b>	
Licensee Name		Louisiana Television Broadcasting, Inc.	
Latitude (NAD 83)		30° 25' 53.7" N	
Longitude (NAD 83)		91° 11' 7.4" W	
Ground Elevation (AMSL)		10.67 m / 35.0 ft	
Antenna Centerline (AGL)		6.71 m / 22.0 ft	
Antenna Model		SCIENTIFIC-ATLANTA, INC 8002-SHORT MOUNT	
Antenna Mode		Receive 4.0 GHz	Transmit 6.1 GHz
Interference Objectives: Long Term		-156.0 dBW/MHz 20%	-154.0 dBW/4 kHz 20%
Short Term		-146.0 dBW/MHz 0.01%	-131.0 dBW/4 kHz
	0.0025%		
Max Available RF Power		1.0 (dBW/4 kHz)	

		Transmit 6.1 GHz		Receive 4.0 GHz		
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	53.12	-10.20	409.73	-9.50	225.86
195	0.00	51.43	-10.20	409.73	-9.50	225.86
200	0.00	49.20	-10.04	411.69	-9.50	225.86
205	0.00	46.53	-9.51	418.38	-9.50	225.86
210	0.00	43.49	-8.90	426.11	-9.20	227.76
215	0.00	40.16	-8.23	434.74	-8.53	231.97
220	0.00	36.61	-7.52	444.16	-7.14	240.94
225	0.00	32.95	-6.38	459.69	-6.09	247.92
230	0.00	29.60	-5.04	478.03	-5.34	252.98
235	0.00	26.71	-3.88	495.00	-4.18	259.29
240	0.00	24.46	-2.98	508.66	-3.17	266.47
245	0.00	23.03	-2.41	517.52	-2.32	272.77
250	0.00	22.58	-2.23	520.34	-2.05	274.80
255	0.00	23.16	-2.47	516.67	-2.40	272.17
260	0.00	24.71	-3.09	507.09	-3.33	265.36
265	0.00	27.06	-4.02	492.91	-4.32	258.31
270	0.00	30.02	-5.21	475.60	-5.50	251.86
275	0.00	33.43	-6.57	457.08	-6.19	247.28
280	0.00	37.16	-7.63	442.69	-7.36	239.51
285	0.00	41.12	-8.42	432.23	-8.72	230.75
290	0.00	45.26	-9.25	421.59	-9.50	225.86
295	0.00	49.52	-10.10	410.90	-9.50	225.86
300	0.00	53.88	-10.20	409.73	-9.50	225.86
305	0.00	58.32	-10.20	409.73	-9.50	225.86
310	0.00	62.80	-10.20	409.73	-9.50	225.86
315	0.00	67.33	-10.20	409.73	-9.50	225.86
320	0.00	71.89	-10.20	409.73	-9.50	225.86
325	0.00	76.48	-10.20	409.73	-9.50	225.86
330	0.00	81.08	-10.20	409.73	-9.50	225.86
335	0.00	85.69	-10.20	409.73	-9.50	225.86
340	0.00	90.31	-10.20	409.73	-9.50	225.86
345	0.00	94.92	-10.20	409.73	-9.50	225.86
350	0.00	99.53	-10.20	409.73	-9.50	225.86
355	0.00	104.13	-10.20	409.73	-9.50	225.86