

CTV Television, Inc.

Approved by OMB
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Bridgeport, Connecticut STA

I. Applicant

Name:	CTV Television, Inc.	Phone Number:	4163846441
DBA Name:		Fax Number:	4163846339
Street:	9 Channel Nine Court	E-Mail:	Brian.Learoyd@bellmedia.ca
City:	Toronto	State:	
Country:		Zipcode:	
Attention:	Brian Learoyd		

SES-STA 2012-1029-00970
 none
 Call Sign Grant Date 10-31-12
 (or other identifier)
 From 01-15-12 To 11-5-12
 Brian Learoyd

2. Contact			
Name:	Brian Learoyd	Phone Number:	4167021162
Company:	Bellmedia	Fax Number:	4163846339
Street:	9 Channel Nine Court	E-Mail:	Brian.Learoyd@bellmedia.ca
City:	Toronto	State:	
Country:	Canada	Zipcode:	M1S -4B5
Attention:		Relationship:	Same
(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 type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other			
6. Requested Use Prior Date			
10/29/2012			
7. City/Bridgeport		8. Latitude	
		(dd mm ss.s h) 41 10 38.69 N	

9. State	CO	10. Longitude (dd mm ss.s h)	73 10 47.61 W
11. Please supply any need attachments.		Attachment 1: Bridgeport Letter	Attachment 2: Sat Truck Tech Specs
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.)		Attachment 3: RF Hazard Report	
<p>TV News coverage of Hurricane Sandy as it makes landfall on the eastern seaboard of the United States and the aftermath it leaves.</p>			
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"; for these purposes.		Yes <input checked="" type="radio"/>	No <input type="radio"/>
14. Name of Person Signing	Brian Learoyd		
15. Title of Person Signing	Senior Director of Mobile Engineering		
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).			

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Bell Media Inc.
9 Channel Nine Court
Toronto, ON M1S 4B5

BellMedia

October 29, 2012

Federal Communication Commission
International Branch – Satellite Earth Station
445 12th Street S.W.
Washington, DC 20554
Office of the Secretary

Re: STA Request
Ku-Band Transmit Earth Station
Bridgeport, Connecticut

To Whom It May Concern:

This STA is being requested to allow **CTV Television** (a division of Bellmedia), to provide News coverage of Hurricane Sandy from Bridgeport, Connecticut using a CTV owned and operated SNG truck. The earth station will transmit News coverage from the Bridgeport, Connecticut site and downlink the signal to the studio location in Toronto, Canada. The signal will be distributed on the applicant's TV broadcast system. All traffic will be on the Galaxy 17K satellite located at 91 degrees West Longitude. The STA is requested for a period of 5 days starting on Monday October 29, 2011. This time frame will allow for the news coverage the landfall of Hurricane Sandy and its aftermath.

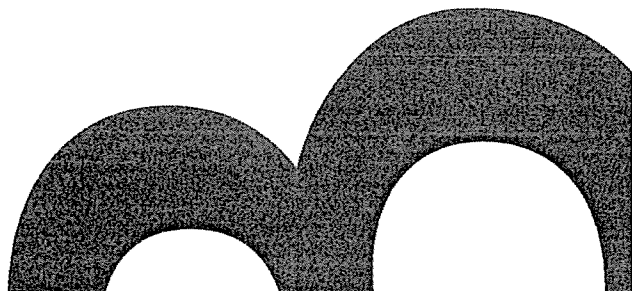
If you have any questions, please contact the following



Brian Learoyd
Senior Director of Mobile Engineering
Bellmedia – CTV Television (CFTO)

9 Channel Nine Court
Toronto, Ontario
M1S 4B5

Phone: 416-384-6441
Cell: 416-702-1162
Fax: 416-384-6339
Email: Brian.Learoyd@bellmedia.ca



SATELLITE EARTH STATION TECHNICAL EXHIBIT

29-Oct-12

Company:	CTV Television Inc. (CFTO)
Class of Station:	Temporary Fixed Earth Station (News Satellite Truck)
CTV Vehicle Name:	"Phoenix"
Operator Cell Phone Number:	(647) 222-2132
Earth Station Name, State	BRIDGEPORT, CONNECTICUT
Latitude: (DMS)	41 10 38.69 N
Longitude: (DMS)	73 10 47.61 W
Ground Elevation AMSL (m)	9
Antenna Center: (m)	3
Transmit Antenna Type:	ANDREW CORP. ESA24SNG-LTE
14.5 Ghz Gain (dBi) / Diameter (m)	45.9 / 1.8
Operating Mode:	TRANSMIT ONLY
Modulation:	DIGITAL
Frequency Band:	Ku
Frequency Bands:	14000.0000 - 14500.0000
Antenna Polarization:	H, V
Emission Designator:	36M0G7W
Maximum EIRP per Carrier: (dBw)	71.3407
Maximum EIRP Density per Carrier: (dBw/4 kHz)	31.7983
Description of Modulation and Services:	One 36 Mbit MCPC digital carrier for voice/data with an emission designator of 36M0G7W
Total Input Power at Antenna Flange: (watts)	350
Total EIRP for All Carriers: (dBW)	71.3407
Range of Satellite Arc - East:	60 degrees W
Range of Satellite Arc - West:	140 degrees W
Antenna Elevation Angle - East:	5 degrees
Antenna Elevation Angle - West:	5 degrees
Radio Climate:	A
Rain Zone:	2

RADIATION HAZARD STUDY

For CFTO-TV

This report is to analyze the non-ionizing radiation levels for a Transportable KU Uplink utilizing an Vertex C180M, 1.8 meter 4-port Earth Station Antenna. The Office of Science and Technology Bulletin, No. 65, August 1997, specified that the maximum level of non-ionizing radiation that a person may be exposed to over a .1 hour (6 minute) period is an average power density equal to 5mW/cm^2 (five milliwatt per centimeter squared). It is the purpose of this report to ascertain the power flux densities of the earth station in the far field, near field, transition region, the main reflector surface, and between the antenna edge and the ground.

The following parameters were used to calculate the various power flux densities for the earth station:

Antenna Diameter, (D)	= 1.8 meters
Antenna Surface Area, (Sa)	= $\pi(D^2)/4$ = 2.5447 m^2
Wavelength at 14.25 Ghz, (λ)	= 0.0211 meters
Transmit Power at Flange, (P)	= 350 watts
Antenna Gain, (Ges)	= 38904.5145
Antenna gain at 14.25GHz = 45.9dBi, converted to a power ratio given by: $Ges=10^{dBi/10}$	
π	= 3.1415927
Antenna Aperture Efficiency, (n)	= 0.65
ANSI Safe Power Density, (Ws)	= 5.0mW/cm^2