

SATELLITE EARTH STATION TECHNICAL EXHIBIT

15-Apr-13

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	BOSTON, MASSACHUSETTS
Latitude: (DMS)	42 20 58.28 N
Longitude: (DMS)	71 4 37.05 W
Ground Elevation AMSL (m)	3
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