Federal Communications Commission
Washington, DC 20554

International Bureau

August 26, 2011

Verizon Business
RTE 120 494 Roxbury Pond Rd.
Andover, Me 042167

Re: Email, Paul Blais, FCC 22 August 2011, attached.

Dear Messrs. Hoff, Gonzalez, Burrows, and Ms. Kao:

The Commission has recently received a request from Canada that indicated it would like to deploy terrestrial stations (FS) that operate in the 3650-3700 MHz frequency band, within a 150km perimeter of your FSS earth stations, call signs E000306, E000700, KA349, KA386, WA20, and E930190 located in Andover, Me. FCC docket 05-56 Report and Order established a 150 km circular protection zone for Grandfathered FSS earth stations, such as yours, under a streamlined licensing approach for fixed stations. Canada proposes using FCC 05-56 Report and Order, Appendix D methodology, to reduce the protection zone for Canadian applicants at your Andover, Me, site(s).

Our Systems Analysis Branch (SAB) of the Satellite Division, in the International Bureau, has reviewed the Canadian proposal in detail and believes that its proposal is technically sound, and would decrease frequency coordination demands and expenses on your facility(ies). Our review included development of a Microsoft Excel based protection calculator that has been forwarded to by the referenced email. The calculator calculates protection zones based on the formula described in appendix D of the FCC 05-56 Report and Order, and is inclusive of the changes defined in Memorandum Opinion and Order FCC 05-184. The tool was used to calculate the proposed new protection zone

about your Andover, Me, earth stations and plot it on "Google earth." A graph of the protection zone shape and orientation are also plotted on the Excel worksheet , "Visual Output," in the Excel file forwarded by email and a printout for elevation angle = 5° is attached. Overlaid protection zone plots for 5,10,15,20, 35, and 38.5 antenna elevation angles were also compiled and are provided for your review.

The Commission seeks Verizon concurrence to reduce the protection zone for your Andover, Me., site. In view of the fact that deployment of broadband FS systems is of national interest and is being pursued by Canada, as well. It is beneficial for economies of both nations to support each other. We would appreciate your cooperation in this matter.

We request that your response to this proposal be received by this agency within 30 days of the date of this letter. A non-response will be considered as your concurrence with this proposal. Please forward all of your related correspondence to address(ees), as listed here.

Postal delivery: Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street, SW
Washington, D. C. 20554

Postal delivery: Paul E. Blais, Chief, Systems Analysis Branch
International Bureau
Satellite Division
445 12th Street, SW,
Washington, D. C. 20554 ,

E-Mail delivery: Paul.Blais @fcc.gov

Should you find anything that is incorrect in our calculations or have questions, please call or email to me at the number below.

We greatly appreciate your assistance in this matter.

Sincerely,

Paul E. Blais
Chief, Systems Analysis Branch
Satellite Division

Cc: MCI Communications Services, Inc ,
Attn: Dan Gonzalez,
2400 N. Glenville Drive, Dept/Loc 71216/107,
Richardson, TX 75082

Email: Charlie-Hoff@verizonbusiness.com; dan.gonzalez@verizon.com
; 'Mark.J.Burroughs@verizon.com';mabel-kao@verizonbuisness.com;
Info: ANE-MUX@verizonbusiness.com;Robert.Nelson@fcc.gov;Marcus .wolf@fcc.gov

From: Paul Blais
Sent: Monday, August 22, 2011 4:31 PM
To: 'Mark.J.Burroughs@verizon.com'
Cc: Frank Peace; 'ANE-MUX@verizonbusiness.com'; 'mabel.kao@verizonbusiness.com'
Subject: FW: 3650 - 3700 MHz Terrestrial vs. FSS Coordination

Mark,

Thank you for returning my call. I heard that your coordinator is Dan Gonzales and that he works with COMSEARCH to complete coordination and that you would begin the process with Dan. This request was received through our Strategic Analysis & Negotiations Division here in the International Bureau and contacts in the Wireless Telecommunications Bureau.

The Commission has recently received a request from Canada that indicated it would like to deploy terrestrial stations that operate in the 3650-3700 MHz frequency band, within the 150km of your earth stations, call signs E000306, E000700, KA349, KA386, WA20, and E930190 located in Andover, ME. FCC 05-56 Report and Order established a 150 km circular protection zone for Grandfathered earth stations such as yours under a streamlined licensing approach for fixed earth stations. Canada proposes using FCC 05-56 Report and Order, Appendix D methodology to reduce the protection zone at your Andover ME site.

The Systems Analysis Branch of the Satellite Division, International Bureau has reviewed the Canadian proposal in detail and believes that the proposal is technically sound and would decrease coordination demands and expenses on your facility. Its review included development of a Microsoft Excel based protection calculator that has been attached to this email and letter. The calculator calculates protection zones based on the formula described appendix D of the FCC 05-56 Report and Order and inclusive of the changes defined in Memorandum Opinion and Order FCC 05-184. The tool was used to calculate and plot the proposed new protection zone about your Andover, ME earth stations using "Google earth". A graph of the protection zone shape and orientation is plotted on the Excel worksheet sheet "Visual Output" for elevation angle = 5°. Overlaid protection zone plots for 5,10,15,20, 35 and 38.5 antenna elevation angles were also complied and are provided for your review.

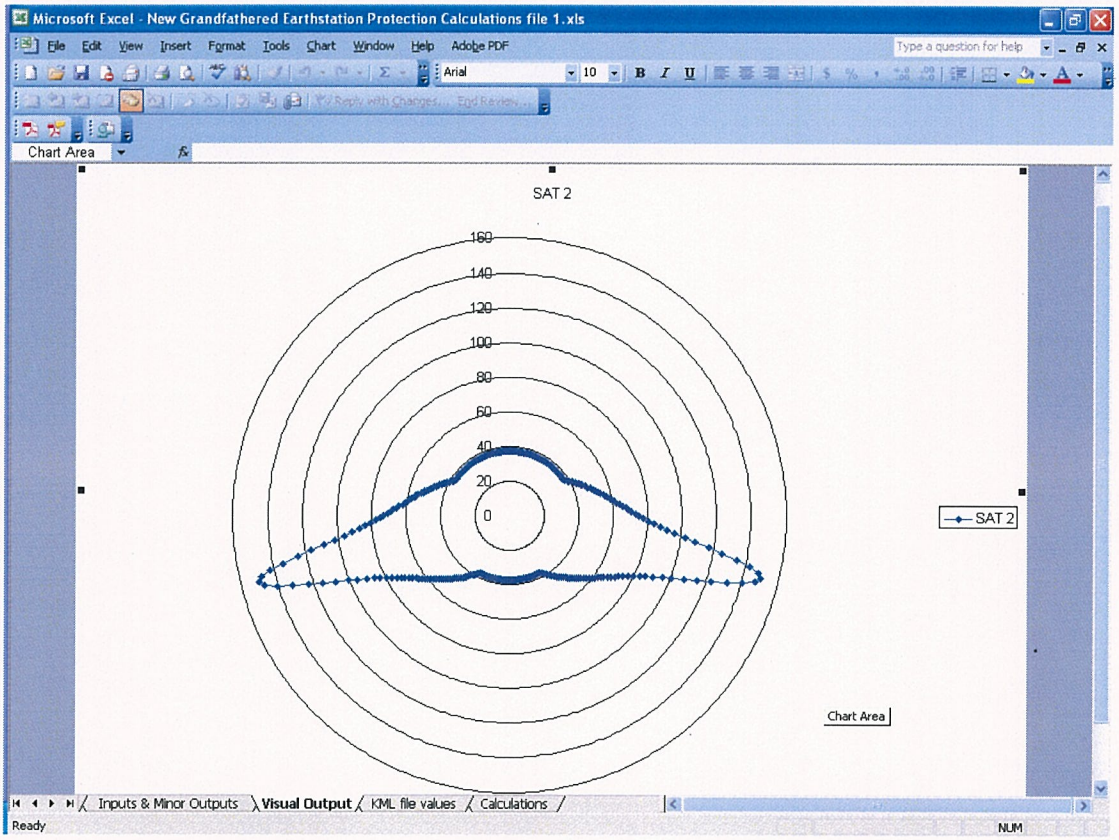
The Commission seeks your agreement to reduce your Andover, ME stations. In view of the fact that deployment of broadband FS systems are of national interest and are being pursued by Canada as well, it is beneficial for economies of both nations to support each other. We would appreciate your cooperation in this matter. We request your response to this proposal be emailed to me and mailed to:

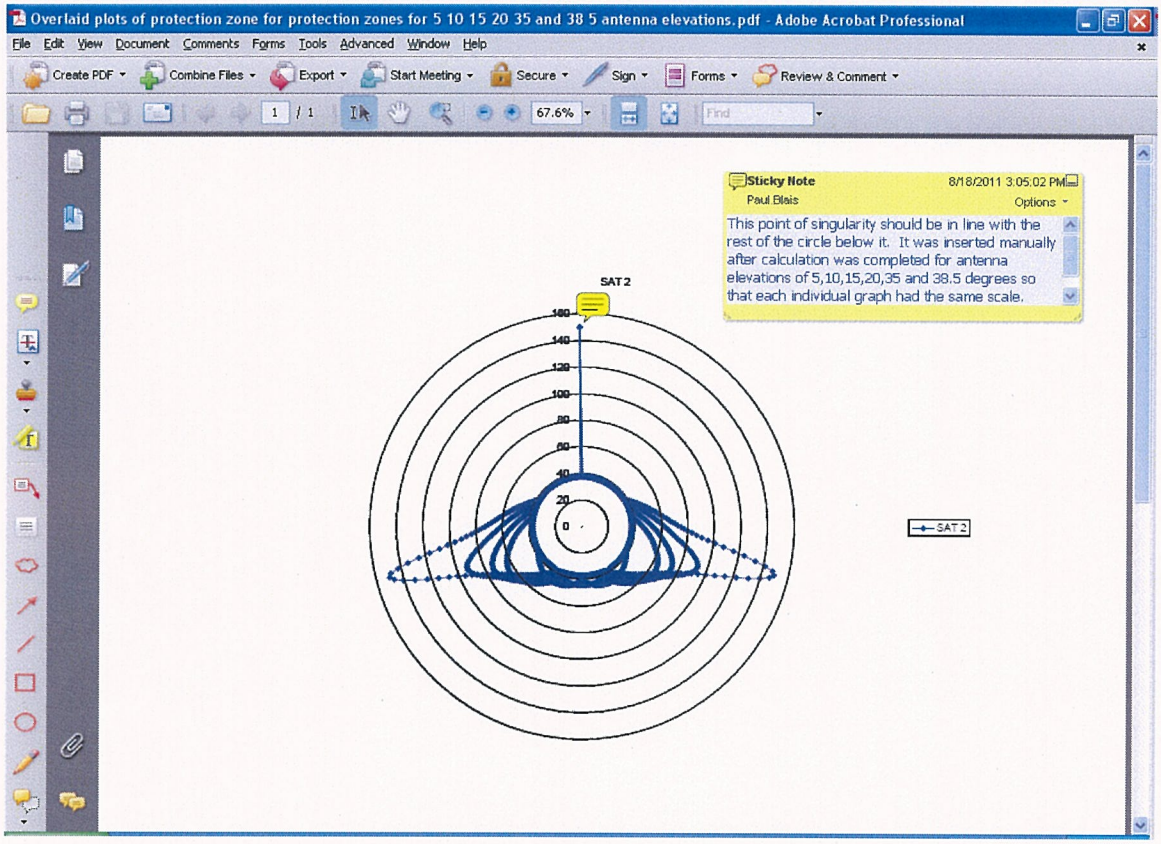
Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street, SW
Washington, D.C. 20554
ATTN: Paul Blais Satellite Division, International Bureau

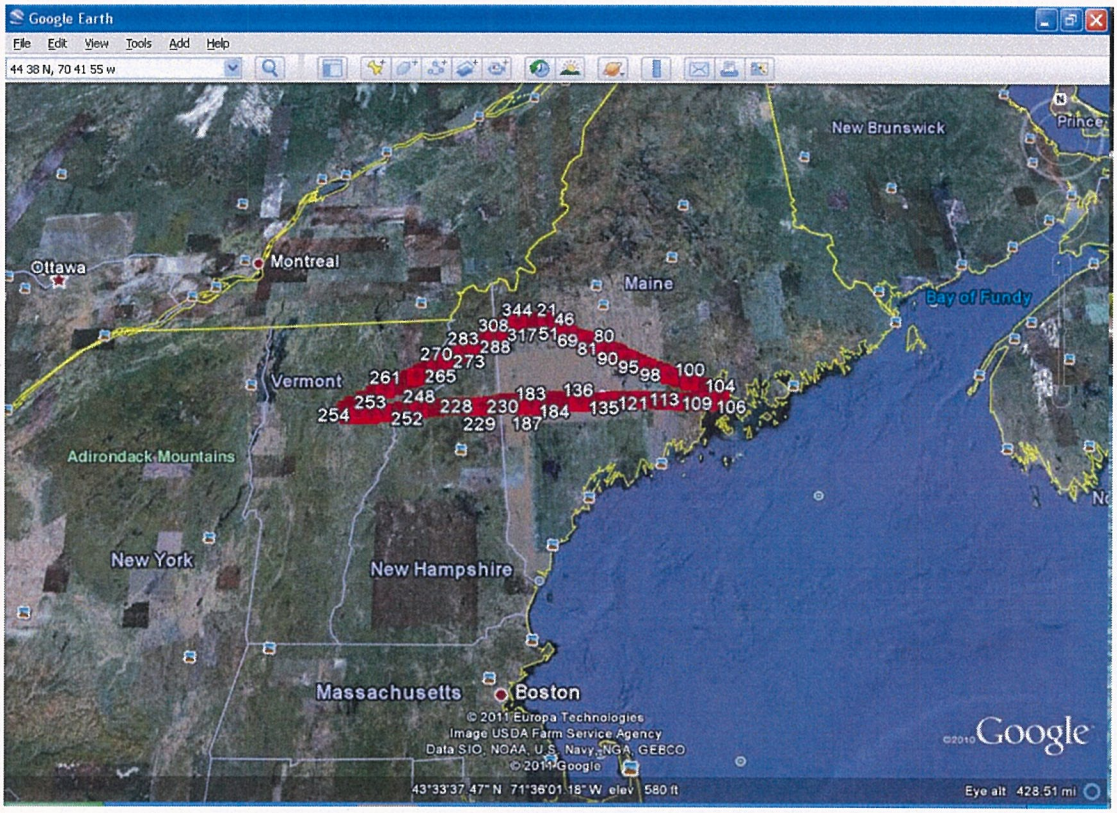
within 30 days of this email or receipt of certified US mail sent to the site address on the current authorization on file as shown in the attached. No response will be considered as your agreement to this proposal. Should you find anything incorrect in our calculations or have questions please call or email to me at the number below.

We greatly appreciate your assistance in this matter.

Paul Blais
Chief, Systems Analysis Branch
International Bureau, FCC
202.418.7274


Microsoft Excel - New Grandfathered Earthstation Protection Calculations file 1.xls
File Edit View Insert Format Tools Chart Window Help Adobe PDF
Type a question for help
Arial
10
Chart Area
SAT 2
160
140
120
100
80
60
40
20
0
SAT 2
Chart Area
Inputs & Minor Outputs
Visual Output
KML file values
Calculations
Ready
NUM


Overlaid plots of protection zone for protection zones for 5 10 15 20 35 and 38 5 antenna elevations.pdf - Adobe Acrobat Professional
File Edit View Document Comments Forms Tools Advanced Window Help
Create PDF
Combine Files
Export
Start Meeting
Secure
Sign
Forms
Review & Comment
67.6%
Sticky Note
8/18/2011 3:05:02 PM
Paul Blais
Options
This point of singularity should be in line with the rest of the circle below it. It was inserted manually after calculation was completed for antenna elevations of 5,10,15,20,35 and 38.5 degrees so that each individual graph had the same scale.
SAT 2
160
140
120
100
80
60
40
20
0
SAT 2


Google Earth
File Edit View Tools Add Help
44 38 N, 70 41 55 w
New Brunswick
Prince
Ottawa
Montreal
Maine
Bay of Fundy
344 21 46
308 317 51 69 81 80
283 288
270 273
90 95 98 100
104
Vermont
261 265
183 136
253 248 228 230 184 135 121 113 109 106
254 252 229 187
Adirondack Mountains
New York
New Hampshire
Massachusetts
Boston
© 2011 Europa Technologies
Image USDA Farm Service Agency
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2011 Google
©2010 Google
43°33'37.47" N 71°36'01.18" W elev 580 ft
Eye alt 428.51 mi