

From: Alessandra Babuscia

To: Behnam Ghaffari

Date: July 08, 2010

Subject: FCC File No. 0283-EX-PL-2010

Message:

1. Per your email, David Miller will remain as the applicant since our university (Massachusetts Institute of technology) is a private educational Institution and not a federal or state educational institution. Furthermore, he is the man in charge of the CASTOR project.

2. The Coordinates of the receiving ground station are : 167.717 degrees East and 8.717 degrees North.

3. The satellite CASTOR will be in a Low earth orbit(LEO) at an altitude between 700 to 3000 kilometers. There is not an exact altitude because the satellite will be changing its altitude in order to test its thruster system to verify the capability of the thruster system to provide enough force to change the satellite's radius of orbit. The satellite will have two patch antennas, one has 8 dBi of gain and the other has 11 dBi of gain. The manufacturer of the antennas is provided in the original application. The 8 dBi antenna has a half power beam-width of 120 degrees and the 11 dBi antenna has a half power beam-width of 100 degrees.