Flight Programs

**FalconSat-5 (launched 2010)**
The Space Plasma Characterization Source was delivered to USAFA for the FalconSat-5 mission. This integrated unit consists of cold ammonia gas, 200-800W Hall Effect Thruster, high speed plasma probe, propellant management system, and all associated power electronics and DCIU.

**First Flight Electrospray Thruster, Lisa Pathfinder (delivered, 2008)**
In 2008 Busek delivered to NASA a pair of colloid thruster clusters for the NASA/ESA Lisa Pathfinder mission, ST7. The culmination of a 6-year development effort, with its genesis as a Phase 1 SBIR (JPL), the clusters comprise complete systems of thrusters, feed systems, propellant storage, power electronics, and digital control interface unit. They are scheduled to launch on an ESA spacecraft in 2013.

**FalconSat-3 (launched in 2007, successful ops)**
Another effort that resulted in one arrangement and the starting point for the device is the three-axis MPACS (Micro Propulsion Attitude Control System), four of which are successfully flying on the USAFA FalconSat-3 satellite (MPACS are small cubes on left side of the image).

**TacSat-2 (launched 2006)**
On December 16, 2006 the AFRL TacSat-2 satellite was launched with Busek's 200W Hall Thruster for primary propulsion. This thruster is the first US-designed and US-built Hall thruster in space and represents a significant milestone not only for Busek but also for the US space industry as a whole.

**About Busek Co, Inc**
Busek Co., Inc. is an engineering-focused space propulsion company that provides a wide range of thrusters, electronics, research and complete mission and system engineering support. Busek's flight heritage includes: FalconSat-5, Lisa Pathfinder, TacSat-2, and FalconSat-3.