



## EOSS Meeting Minutes Tuesday September 10, 2019 Centennial, CO

**Call to Order:** Tom KE7KCK called the meeting to order at 7:00 PM. There were six present with eight attending via Zoom Meeting.

**Previous Meeting Minutes:** Meeting minutes for August 13, 2019 are available on the EOSS web site for review. Tom KE7KCK directed attendees to review minutes online. With no additions or corrections, passage of August's minutes is accepted as written.

**Treasurer's reports:** Rob NØRPF reviewed checking and savings accounts. We have one outstanding invoice for a CU flight due to a problem with the way QuickBooks sends out invoices. Rob has verified that the invoice has been received by CU. Rob has examined the 10287.9 miles driven for balloon operations and found that it works out to 25 cents per mile. Rob confirmed that pricing schedule for 2020 will remain the same as 2019.

**Tech Committee:** Mark KCØD stated we are in good shape for upcoming flights. Jim KCØRPS emailed Mark KCØD a spreadsheet with frequency plan for payloads.

**ADS-B Committee:** Mark KCØD has received CU's report regarding the status of their ADS-B unit. Nothing new was learned from the report. CU's ADS-B team is undergoing changes that may slow progress toward a functioning ADS-B payload. Mark KCØD says CU's unit becomes erratic above 50K feet and suggests we contact manufacturer to learn about expected behavior. Motion was made for ADS-B committee consisting of Mark KCØD, Steve KØSCC, Marty WAØGEH, and John KCØL to research ADS-B components and provide estimate for obtaining materials and tail number. Motion was approved.

**Launch Team:** Dave KDØSEM will be point of contact for October 12<sup>th</sup> flight.

**FAA:** Russ KBØTVJ received email from Jim KCØRPS describing NASA's HUNCH mission. HUNCH is High Schools United with NASA to Create Hardware. NASA is looking for new technicians to drop objects without heat shields. CU has expressed interest for students to work on NASA labs that include steerable parachutes and dropped objects. This discussion will be tabled pending more details from CU before we approach FAA for waivers. Russ KBØTVJ added that he contacted Michelle with the FAA for content to discuss at our meeting and she had nothing to discuss. Michelle thanked Russ for asking.

**Ground Station:** Jeff N2XGL said version 1.2 of the SDR software has been released and will be used on upcoming flight.

**SDR Tracker Team:** Jeff N6BA pointed out the many improvements to the SDR tracking software. Dire Wolf and APRSC have been modified for use in the SDR tracker so when connected to the internet it does not become a bandwidth hog. This problem was discovered by Doug NØIX. Version 1.2 also sports a new Dashboard, improved GPS status on the home page, predicted flight path to landing prediction, direct editing of receive frequency, and many more improvements. Jeff N6BA will provide information to Ben KBØUBZ so that he can update the user manual. Great work and thanks to everyone working on this project.

**Upcoming Flights:** Jim KCØRPS is the flight coordinator for the October 12th NDIA/Fall STEM flight which will carry payloads from Pennsylvania, Texas and Colorado. Jim is flight coordinator for the November 2nd Metro State flight. Tom KE7KCK will be flight coordinator for the November 9th Gateway to Space flight. Next summer's GPSL is scheduled for July 9 – 11. Norm Black KEØPAM with NDIA requested a place holder for next November

Meeting adjourned at 09:00 PM

Minutes prepared by David Lanning, Secretary.