



## EOSS Meeting Minutes Tuesday January 14, 2019 Centennial, CO

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

**Previous Meeting Minutes:** Meeting minutes for November 12, 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 November's minutes is accepted as written.

**Treasurer's reports:** Rob NØRPF reviewed checking and Savings accounts. Rob has had trouble with email lately and ask if anyone is missing reimbursement checks. Rob will send out info to members to review and resubmit mileage if needed.

**Tech Committee:** Marty WAØGEH relayed message from Mark KCØD. Mark has not received any diagnostic data on GPS issue mention in last month's meeting on EOSS-296. Mark also stated that AEØSS-12 is out of service. No information on why the wireless release didn't release automatically as it came back with the nozzle. It released manually with no issues and the log did not note any issues

**ADS-B Committee:** Marty WAØGEH relayed message from Mark KCØD who said that two of the ADS-B call signs have been fully approved with official paperwork in hand. The tail numbers are N992SS and N993SS with N991SS expected within a week or so. Mark KCØD has sent a large amount of data to uAvionix to find out why we experience failure above 60,000 feet. It seems that the ping200 unit CU is using is a defective design and won't report above 60,000 feet. CU's ADS-B has been swapped out for another unit until the ping200 design is reworked. Mark KCØD is working with CU on packaging the new temporary device. The ADS-B committee will make recommendations on purchasing a device for EOSS after a successful flight with the unit that CU has.

**Launch Team:** Larry NØNDM say he has three full cylinder and a near full partial of hydrogen on hand for the next flight. Larry will review flight schedule and inventory to make recommendation on purchasing balloons for future flights. Larry mentioned that we need to have more nozzles made for the 3000-gram balloons.

**Ground Station:** Jeff N2XGL reports ground station is in good shape. Jeff N6BA has made some tweaks to the tracking system that need to be pushed out to those using the EOSS Tracker. Jeff N2XGL is working on instructions for anyone wishing to track the ADS-B. An additional SDR dongle will be required. Jeff will send out email when work is complete.

**Track and Recovery Team:** Marty WAØGEH has two EOSS Tracking system for anyone interested. One is new and the other lightly used. Cost for the new unit is \$400.00. Please contact Marty WAØGEH if interested. Marty WAØGEH asked that the track and recovery team be included in any discussions to change launch times. This will help ensure that available tracking teams are in the best position for recovery and on time. Marty WAØGEH and Mike W9CN are experimenting with cross band repeaters to help improve communications while getting around in the morning. Marty introduced a new tracker Brad Mears KEØYAL. Welcome Brad.

**FAA:** Russ KBØTVJ reported that we are expecting our waiver any day now and it will be good for two years.

**Upcoming Flights:** Jim KCØRPS will change the schedule to remove the February 29<sup>th</sup> flight and add a second 1500-gram balloon for payload qualification to the March 14th Flight with NDIA. Marty WAØGEH relayed message from Mark KCØD who needs to qualify new firmware for the KCØD payloads and the new ADS-B unit of CU's. The new firmware will report Barometric pressure and external temperature every 30 seconds to help Jeff N6BA improve real-time landing predictions for the EOSS tracker. If AEØSS-12 repaired, we will have three items to qualify. Jim KCØRPS added that the May 2<sup>nd</sup> flight will be moved to May 9<sup>th</sup>. All other flights are posted on the web site calendar.

**Ham-Con:** Mike W9CN say we have a free table if we want it at HAMCON. The date is August 7<sup>th</sup> through the 9<sup>th</sup> at CU Denver South. Mike believes this would be a good opportunity to recruit some new EOSS members. Mike can man the table on the 7<sup>th</sup> but would need additional volunteers for the 8<sup>th</sup> and 9<sup>th</sup>. Ann KAØZFI who is the PIO for Ham-Con will provide facts and figures to sponsors that may wish to sponsor a speaker for a breakfast or luncheon. Ben KBØUBZ will check on the availability of electricity at the booth. Tom KE7KCK said we will move ahead with a table and we will work on people to man it at the next meeting.

**SDR Update:** Jeff N6BA said that the EOSS Trackers on the DEV branch 1.3 will collect additional data from the KCØD beacons using the new firmware to calculate air density to help improve real-time landing predictions. The 1.3 dev branch also has a connection to CWOP which will capture weather stations that can provide surface wind data in the predicted landing area. If you have a second SDR dongle you can capture ADS-B data on a different screen. Finally, audio alerting, Dashboard changes, and improved look and feel particularly for handheld devices.

**GPSL Coordinator:** Marty WAØGEH said we are looking for a GPSL coordinator for the upcoming GPSL in July.

**Flight 300:** Randy asked if we would be doing anything to celebrate flight 300 which will occur sometime this year. Ben KBØUBZ suggested monogramed shirts or hats. This will be revisited at next month's meeting.

**Officer Elections:** Nominating committee members Marty WAØGEH and Nick NØLP are speaking with current officers and seeking nominations for club officers. Randy will again use the Ham Club online to run the elections and present results at next month's meeting.

Meeting adjourned at 08:20 PM

Minutes prepared by David Lanning, Secretary.