Date: 2018-03-19
Flight Campaign ID: 2018_P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) – Boulder, CO

Domain: 10
Sites Flown: N10C (Functional Check Flight – Nominal Runway)
Days left in Domain: 10

Report Author: Matt DeVoe
Flight Crew: Cameron Chapman, Matt DeVoe, Ivana Vu
Ground/GPS Crew: Abe Morrison, Robb Walker
Pilots: Stephen Brawders, Mike Francis
Additional Personnel: None

GPS Instruments: GPS01 – FBO_KBDU
Flight Hours: 02:54
Hours until aircraft maintenance: 122.10

Summary:
- The FCF/nominal runway was completed. Lines 1 – 26 (RiAquire Project: D10_N10C_Nominal_Rnwy_v7_Q780)
- Ivana V. completed her NIS recertification.
- Cameron C. completed his Reigl LIDAR observation flight.
- Abe M. completed his ground crew recertification

New Faults:
Lidar – Remote Desktop to RiAquire lost connection several times in-flight.
Flight Plans – Current N10C flight plan KML does not include markers.

Ongoing Faults:
Shutter on NIS not closed at the request of the lab manager due to a known malfunction.

Other Issues & Concerns:
None

Comments:
The weather was mostly cloudy with conditions broken at 8000’ MSL and overcast at 10,000’ MSL. The cloud deck remained high enough for us to accomplish 26 Functional Check Flight lines plus 2 test lines during 2.54 hours of flight. The LIDAR performed well but will need to have the remote desktop connection to RiAquire fixed ASAP.
Flight Screenshots:

Messages

- 2018-03-19 19:03:55: State of Q780 changed to 'stop work logging'.
- 2018-03-19 19:04:00: Automatic sensor stop accepted automatically after '2' seconds.
- 2018-03-19 19:04:08: 'Data Port' of Q780 changed to 'disconnecting' state.
- 2018-03-19 19:04:34: State of Q780 changed to 'initialized'.
- 2018-03-19 19:05:29:914:1/6: Disk usage of 'INS-GPS 1' changed to 6.5%.
Daily Domain Coverage:
Not Applicable to calibration/training flights

Cumulative Domain Coverage:
Not Applicable to calibration/training flights

Weather Forecast:

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<tr>
<td>54°</td>
<td>31° F</td>
<td>61°</td>
<td>37° F</td>
<td>71°</td>
<td>47° F</td>
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Flight Collection Plan for 20 March 2018
Continue P3C1 calibration, NIS and LIDAR training/certification flights.

Flight Collection Plan for 21 March 2018
Continue P3C1 calibration, NIS and LIDAR training/certification flights.