Date: 2023-04-07  
Flight Campaign ID: P3C1  
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO  
Aircraft: N934MU  

Domain: 00 (Training & Calibration)  
Sites Flown: Nominal runway (KBDU)  
Days left in Domain: 11  

Report Author: Matt  
Lidar Operators: Matt  
Flight Hours: .55  
Spectrometer Operators: John  
Hours until maintenance: 119.33  
Pilots: Jeff, Cullen  
GPS Instruments: AOP_KBDU  
Ground Crew: Abe  

Summary  
The team attempted to collect the nominal runway and encountered the same Lidar error from the previous flight.  

Concerns  
While attempted to collect the nominal runway Cal. flight but the scanner received a “laser_on_current_too_high” error and refused to fire properly and record data. The Riegl customer support team has been contacted and we’re awaiting further guidance. The NIS was powered off and is currently warming.  

Comments  
None  

Daily Coverage  
Estimated Cloud Cover Key  

<table>
<thead>
<tr>
<th>Green: 0-10%</th>
<th>Yellow: 11-50%</th>
<th>Red: &gt;50%</th>
</tr>
</thead>
</table>

Flight Screenshots: Error code received during second flight while attempted to fire at 50% power.  

<table>
<thead>
<tr>
<th>mERR:LASER_ON_CURRENT_TOO_HIGH</th>
<th>250</th>
<th>The input current of the laser module when the laser is on is too high.</th>
</tr>
</thead>
</table>

Cumulative Domain Coverage  
D00|B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)  

| Flown: 0% (0/20) | Green: 0% (0/20) | Yellow: 0% (0/20) | Red: 0% (0/20) |
D00|H10C (NEON Headquarters Lidar Test - Riegl)

1  2  3  4
Flown: 100% (4/4)
Green: 0% (0/4)
Yellow: 0% (0/4)
Red: 100% (4/4)

D00|N10D (Nominal Runway at KBDU - Riegl)

1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20
21  22  23  24  25  26  27  28
Flown: 0% (0/28)
Green: 0% (0/28)
Yellow: 0% (0/28)
Red: 0% (0/28)

D00|O10B (NIS Offset - Riegl)

1  2
Flown: 0% (0/2)
Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 0% (0/2)

D00|R10C (Table Mountain Radiometric Calibration - Riegl)

1  2  3  4  5
Flown: 0% (0/5)
Green: 0% (0/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

D00|R10D (Boulder Airport Radiometric Calibration)

1  2  3  4  5
Flown: 100% (5/5)
Green: 100% (5/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

D00|V10C (Boulder City South)

1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20
21  22  23  24  25  26  27  28  29
Flown: 14% (4/29)
Green: 0% (0/29)
Yellow: 0% (0/29)
Red: 14% (4/29)

D00|W10C (Wiggle Timing Test - Riegl)

1  2
Flown: 100% (2/2)
Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 100% (2/2)

Weather Forecast
Boulder, CO
<table>
<thead>
<tr>
<th>Date</th>
<th>Temperature</th>
<th>Weather</th>
<th>Chance of Precip. (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sat 4/8</td>
<td>63°</td>
<td>38°F</td>
<td>Mostly Cloudy</td>
</tr>
<tr>
<td>Sun 4/9</td>
<td>66°</td>
<td>40°F</td>
<td>Partly Cloudy</td>
</tr>
<tr>
<td>Mon 4/10</td>
<td>73°</td>
<td>45°F</td>
<td>Sunny</td>
</tr>
<tr>
<td>Tue 4/11</td>
<td>80°</td>
<td>49°F</td>
<td>Sunny</td>
</tr>
<tr>
<td>Wed 4/12</td>
<td>78°</td>
<td>49°F</td>
<td>Mostly Sunny</td>
</tr>
</tbody>
</table>

source: wunderground.com

Flight Collection Plan for April 8, 2023

No flights planned due to system warm up and Lidar troubleshooting.