July 18, 2019 Payload 3 Daily Flight Report

Date: 2019-07-18
Flight Campaign ID: 2019_P3C1
Airport, FBO ID, City: Bismarck Municipal Airport (KBIS) - Bismarck, ND

Domain: 09
Sites Flown: Transit ()
Days left in Domain: 14

Report Author: Cameron Chapman
Flight Crew: Cameron Chapman
Ground/GPS: Elissa Barris
Pilots: Justin Eddington, Paul Nunemann
Additional Personnel: None
GPS Instruments: n/a

Flight Hours: 1:47 - 2:27
Hours until maintenance: 96.32

Summary
We completed the transit from Grand Junction, CO to Bismarck, ND. The payload has begun the pumping process and should begin re-cooling tonight. We expect the payload to reach nominal operating conditions by Friday afternoon and be ready for flight Saturday morning.

Concerns
- None

Comments
- Aircraft maintenance was completed.
- The FBO GPS will be deployed tomorrow.
- The return of Bob!! Bob is one of AOP’s “stuffed toy” mascots who went missing last year. Bob has been hiding out at TOIL’s maintenance hangar and has many stories to tell! Welcome back Bob!

Flight Screenshots
- None

Pictures
Above: Crazy Horse Memorial
Below: Mount Rushmore National Memorial
AOP’s Mascot Bob has returned home safely after an 8 month sabbatical.
Daily Coverage: None

Cumulative Domain Coverage

**NOGP**

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Flown: 0% (0/26)
Green: 0% (0/26)
Yellow: 0% (0/26)
Red: 0% (0/26)

**WOOD_DCFS**

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>35</td>
<td>36</td>
<td>37</td>
<td>38</td>
<td>39</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>41</td>
<td>42</td>
<td>43</td>
<td>44</td>
<td>45</td>
<td>46</td>
<td>47</td>
<td>48</td>
<td>49</td>
<td>50</td>
<td>51</td>
<td>52</td>
<td>53</td>
<td>54</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Flown: 0% (0/54)
Green: 0% (0/54)
Yellow: 0% (0/54)
Red: 0% (0/54)

**Weather Forecast**

**Mandan, ND (NOGP)**

<table>
<thead>
<tr>
<th>Fri 7/19</th>
<th>Sat 7/20</th>
<th>Sun 7/21</th>
<th>Mon 7/22</th>
<th>Tue 7/23</th>
<th>Wed 7/24</th>
<th>Thu 7/25</th>
<th>Fri 7/26</th>
<th>Sat 7/27</th>
</tr>
</thead>
<tbody>
<tr>
<td>80°</td>
<td>59° F</td>
<td>80°</td>
<td>54° F</td>
<td>78°</td>
<td>57° F</td>
<td>83°</td>
<td>62° F</td>
<td>88°</td>
</tr>
<tr>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>Sunny</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
</tr>
</tbody>
</table>

**Goldwin, ND (WOOD)**

<table>
<thead>
<tr>
<th>Fri 7/19</th>
<th>Sat 7/20</th>
<th>Sun 7/21</th>
<th>Mon 7/22</th>
<th>Tue 7/23</th>
<th>Wed 7/24</th>
<th>Thu 7/25</th>
<th>Fri 7/26</th>
<th>Sat 7/27</th>
</tr>
</thead>
<tbody>
<tr>
<td>77°</td>
<td>60° F</td>
<td>78°</td>
<td>54° F</td>
<td>75°</td>
<td>56° F</td>
<td>80°</td>
<td>61° F</td>
<td>85°</td>
</tr>
<tr>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Sunny</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
</tr>
</tbody>
</table>

Cloud Cover (%)  
Chance of Precip. (%)
Flight Collection Plan for 19 July 2019
Continue to Pump and cool system
**Crew:** Cameron Chapman- Elissa Barris

Flight Collection Plan for 19 July 2019

**Flyority 1:**
Collection Area: Woodworth (WOOD) – Dakota Coteau Field School (DCFS)
Flight Plan Name: D09_WOOD_DCFS_C1_P1_v4_Q780
On-station Time: 1520 / 1020L

**Flyority 2:**
Collection Area: Northern Great Plains (NOGP)
Flight Plan Name: D09_NOGP_R2_P1_v2_V780
On-station Time: 1530 / 1030L

**Crew:** Cameron Chapman (Lidar), Elissa Barris (NIS/GPS)