

**APPENDIX D: SAMPLE CALIBRATION REPORT**

**CALIBRATION REPORT**

**System#:** \_\_\_\_\_

<b>Signed Out Date:</b>	<b>Signed Off By:</b>	<b>First Project Name/Number</b>	<b>Project Manager:</b>	<b>Signed In Date:</b>

**CALIBRATION CERTIFICATION**

I certify that the testing and calibration of this system has been performed in accordance with customary procedures and that this system meets required performance specifications unless noted otherwise.

\_\_\_\_\_  
Authorized Calibration Engineer

\_\_\_\_\_  
Date

**MLS SYSTEM CONFIGURATION**

**REPORT BY:** \_\_\_\_\_

**Date[yyyy/mm/dd]:** \_\_\_\_ / \_\_\_\_ / \_\_\_\_

**COMPUTER RACK DESCRIPTION:**

<b>Logging CPU</b> Number _____ S/N _____ P/N _____  <div style="text-align: right;">Disk (GB) _____</div>	<b>Nav CPU</b> Number _____ S/N _____ P/N _____  <div style="text-align: right;">Disk (GB) _____</div>
<b>Monitor</b> S/N _____ P/N _____	<b>Keyboard</b> S/N _____ P/N _____
<b>GPS Model</b> _____	<b>GPS Firmware:</b> _____
<b>GPS S/N</b> _____	<b>Antenna S/N:</b> _____
<b>DMI Model</b> _____	<b>Install Location:</b> _____
<b>DMI S/N</b> _____	

**INSTRUMENT PLATE DESCRIPTION:**

Type of Plate	Plate Number
<b>Laser #1 Model</b> Unit #: _____      S/N _____	
<b>Laser #2 Model</b> Unit #: _____      S/N _____	
<b>IMU Model</b> Unit #: _____      S/N _____	
<b>Camera #1 Model</b> Unit #: _____      S/N _____      Lens#: _____	
<b>Camera #2 Model</b> Unit #: _____      S/N _____      Lens#: _____	
<b>Pod Type:</b> _____	

## **Installation Notes**

## **Installation Diagram**

***IMU to Laser #1 Boresights***

<b>Boresight Component</b>	<b>Angle (degrees)</b>	<b>Estimated Accuracy (1<math>\sigma</math>, meters)</b>	<b>Date</b>	<b>Computation Method</b>
Roll				
Pitch				
Yaw				

***IMU to Laser #1 Offsets (IMU-Laser)***

<b>Offset Component</b>	<b>Value (meters)</b>	<b>Estimated Accuracy (1<math>\sigma</math>, meters)</b>	<b>Date</b>	<b>Computation Method</b>
X				
Y				
Z				

***IMU to Laser #2 Boresights***

<b>Boresight Component</b>	<b>Angle (degrees)</b>	<b>Estimated Accuracy (1<math>\sigma</math>, meters)</b>	<b>Date</b>	<b>Computation Method</b>
Roll				
Pitch				
Yaw				

***IMU to Laser #2 Offsets (IMU-Laser)***

<b>Offset Component</b>	<b>Value (meters)</b>	<b>Estimated Accuracy (1<math>\sigma</math>, meters)</b>	<b>Date</b>	<b>Computation Method</b>
X				
Y				
Z				

### ***IMU to Camera #1 Boresights***

<b>Boresight Component</b>	<b>Angle (degrees)</b>	<b>Estimated Accuracy (1<math>\sigma</math>, meters)</b>	<b>Date</b>	<b>Computation Method</b>
Roll				
Pitch				
Yaw				

### ***IMU to Camera #1 Offsets (IMU-Camera)***

<b>Offset Component</b>	<b>Value (meters)</b>	<b>Estimated Accuracy (1<math>\sigma</math>, meters)</b>	<b>Date</b>	<b>Computation Method</b>
X				
Y				
Z				

### ***IMU to Camera #2 Boresights***

<b>Boresight Component</b>	<b>Angle (degrees)</b>	<b>Estimated Accuracy (1<math>\sigma</math>) (meters)</b>	<b>Date</b>	<b>Computation Method</b>
Roll				
Pitch				
Yaw				

### ***IMU to Camera #2 Offsets (IMU-Camera)***

<b>Offset Component</b>	<b>Value (meters)</b>	<b>Estimated Accuracy (1<math>\sigma</math>) (meters)</b>	<b>Date</b>	<b>Computation Method</b>
X				
Y				
Z				

***IMU to GPS Offsets (IMU-GPS)***

<b>Offset Component</b>	<b>Value (meters)</b>	<b>Estimated Accuracy (1<math>\sigma</math>) (meters)</b>	<b>Date</b>	<b>Computation Method</b>
X				
Y				
Z				

***IMU to DMI Offsets (IMU-DMI)***

<b>Offset Component</b>	<b>Value (meters)</b>	<b>Estimated Accuracy (1<math>\sigma</math>) (meters)</b>	<b>Date</b>	<b>Computation Method</b>
X				
Y				
Z				

