SOP: Denver Instruments PI 403 Balance Calibration

Approvals:
Preparer: Jason McMillan
Date: 09JAN14
Reviewer: Dr. Maggie Bryans
Date: 10JAN14

1. Purpose:

2. Scope:
   2.1. Applies to the calibration of Denver Instruments PI 403 Balance.

3. Responsibilities:
   3.1. It is the responsibility of the course instructor/lab assistant to ensure that this SOP is performed as directed and to update the procedure when necessary.
   3.2. It is the responsibility of the students/technicians to follow the SOP as described and to inform the instructor about any deviations or problems that may occur while performing the procedure.

4. References:
   4.1. Denver Instruments PI 403 Balance Instruction Manual
   4.2. Denver Instruments PI 403 Balance Operation SOP

5. Definitions: N/A

6. Precautions: N/A

7. Materials:
   7.1. 200g Class 2 or better mass standard for External Calibration
   7.2. Denver Instruments PI 403 Balance

8. Procedure:
   8.1. External Calibration
      8.1.1. Press the “TARE” button.
      8.1.2. Place the 200g Class 2 or better mass standard on the weighing pan. **Use utensils do not touch the mass standard with your hands.**
      8.1.3. Press the “CALIBRATION” button.
      8.1.4. The unit will display **CAL external**.
      8.1.5. When calibration is complete the reading of the weight will be displayed and the unit will return to measurement mode.

   8.2. Internal Calibration
      8.3.1. Press the “TARE” button.
      8.3.2. Press the “CALIBRATION” button.
      8.3.3. The unit will display **CAL internal** and perform the calibration.
      8.3.4. When calibration is complete, the unit will return to measurement mode.
9. Attachments:

**Figure 1:** Denver Instrument PI 403
Denver Instrument PI 403 Manual

**Figure 2:** Denver Instrument PI 403 Display and Keyboard
Denver Instrument PI 403 Manual
**SOP: Denver Instruments PI 403 Balance Calibration**

10. History:

<table>
<thead>
<tr>
<th>Revision Number</th>
<th>Effective Date</th>
<th>Preparer</th>
<th>Description of Change</th>
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<tr>
<td>0</td>
<td>09JAN14</td>
<td>Jason McMillan</td>
<td>Initial release</td>
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