



# APPLICATION FOR REGISTRATION AS A REGISTERED SERVICE COMPANY

Public Service Commission  
SFN 51277 (2/2014)



TYPE OR PRINT - AN INCOMPLETE OR ILLEGIBLE APPLICATION WILL BE REJECTED

Name of Company <b>B&amp;L SCALES INC</b>	Email Address <b>bresnan.123@b1scales.com</b>	Application Date <b>12/20/16</b>	
Mailing Address <b>351 SCOTT ST</b>	City <b>BILLINGS</b>	State <b>MT</b>	Zip Code <b>59101</b>
Telephone Number <b>406-248-4531</b>	Cell Phone Number <b>406-672-0610</b>	Fax Number <b>406-254-7005</b>	

Select below all device types your company will certify:

Scales (include maximum capacity, if applicable)	Liquid (include maximum flow rate, if applicable)
<input checked="" type="checkbox"/> 1. Rail	<input type="checkbox"/> 1. Retail Fuel (less than 20 gal. per minute)
<input checked="" type="checkbox"/> 2. Truck	<input type="checkbox"/> 2. High Flow Retail Fuel (20 gal. per minute or greater)
<input checked="" type="checkbox"/> 3. Livestock	<input type="checkbox"/> 3. Vehicle Tank: Max. Flow Rate: _____
<input checked="" type="checkbox"/> 4. Hopper: Max. Capacity: <u>100,000</u>	<input type="checkbox"/> 4. Stationary Bulk (fuel or oil): Max. Flow Rate: _____
<input checked="" type="checkbox"/> 5. Belt	<input type="checkbox"/> 5. LPG
<input checked="" type="checkbox"/> 6. Over 30 lbs.: Max. Capacity: <u>700,000</u>	<input type="checkbox"/> 6. Stationary LPG
<input checked="" type="checkbox"/> 7. 30 lbs. or less	<input type="checkbox"/> 7. Fertilizer: Max. Flow Rate: _____
<input type="checkbox"/> 8. Class II (indicate on your calibration report which weight kit is Class II certified)	<input type="checkbox"/> 8. Chemical
<input type="checkbox"/> 9. Other: Please List:	<input type="checkbox"/> 9. Anhydrous
	<input type="checkbox"/> 10. Loading Rack
	<input type="checkbox"/> 11. Other: Please List:

List below all persons employed by your company as a North Dakota Registered Service Person and the device types they are registered to certify (attach a separate sheet to list additional employees):

Permit No.	Employee	Device Types Registered to Certify (list using device type numbers from above)
e.g. 1001	e.g. John Doe	e.g. Scales - 2, 3, 6, 8; e.g. Liquid - 1, 2, 6
<b>1714</b>	<b>JOHN MCFERRAN</b>	<b>1, 2, 3, 4, 5, 6, 7</b>

Continued on Page 2



List below all field standards (attach current calibration reports):

<del>SEE ATTACHED STATE OF MONTANA CLTS</del>	

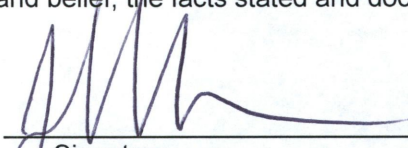
Additional Application Items (initial where appropriate):

Standardized Test Report	<input type="checkbox"/> Copy enclosed <input checked="" type="checkbox"/> No change in report filed previously
Tested and Approved Sticker	<input type="checkbox"/> Copy enclosed <input checked="" type="checkbox"/> No change in sticker filed previously
Photocopy of Crimped Lead Wire Seal	<input type="checkbox"/> Copy enclosed <input checked="" type="checkbox"/> No change in crimped lead wire seal filed previously

Public Company Listing:

Include my company information on your registered service company list for public contact.  
 Yes     No

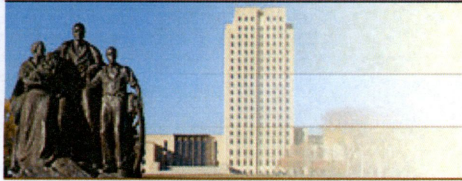
I am JOHN L McFARLAN, and have authority to represent this company.  
By signing this application, I declare that I have examined this form and accompanying documentation, and to the best of my knowledge and belief, the facts stated and documentation provided is true, correct, and complete.

  
\_\_\_\_\_  
Signature

Send Completed Application and Related Documents To:

Public Service Commission  
600 E Boulevard Ave Dept 408  
Bismarck ND 58505-0480  
Telephone: (701) 328-2400  
Fax: (701) 328-2410

North Dakota

nd.gov Official Portal for  
North Dakota State GovernmentNorth Dakota  
LEGENDARY

# SECRETARY OF STATE NORTH DAKOTA

[Home](#) | [Business Records Search](#)

## B&L SCALES, INC.

### Corporation Details

**System ID:** 32122400      **Phone:** (800) 775-1286  
**Type:** FOREIGN BUSINESS CORPORATION  
**Status:** Active & Good Standing  
**Original File Date:** 07/17/2012      **Effective Date:** 07/17/2012  
**State of Origin:** Montana

### Nature of Business

SALES AND SERVICES OF WEIGHING SCALES

### Principal Office

351 SCOTT ST BILLINGS, MT 59101-7368

### Registered Agent

#### **NORTHWEST REGISTERED AGENT SERVICE, INC**

3003 32ND AVE S STE 240  
FARGO, ND 58103-6118  
Established Date: Jul 17, 2012

### Generate an Annual Report To File

To Generate a Annual Report form to be filed with the Secretary of State, select the appropriate year of the report you intend to file. This report does not contain details of a report previously filed with the Secretary of State. The annual report years reflected are an indication of the various report forms available in this site and is not an indication that an entity needs to file reports for all years. Missing years indicate that the forms for the missing year have not yet been deployed to the website, or have already been removed, and can be obtained by contacting the Secretary of State.

[2016](#) (generates a forms-fillable pdf in a new pop-up window)

[Return to Search Results](#)

[Contact Us](#)[Disclaimer](#)[Privacy Policy](#)

We use Secure Sockets Layer (SSL) encryption technology to ensure your information is secure and protected.

Will open a new window (pop-up).

W3C WAI AA, CSS, XHTML Compliant | Copyright 2006. All Rights Reserved. The State of North Dakota.



# Certificate of Mass Calibration

Montana Department of Labor & Industry Metrology Laboratory  
2801 N Cooke St. Helena, Montana 59601  
(406)449-2582 FAX (406)443-8163

**Company Name & Address:**

John McFerran  
B & L Scales Inc.  
351 Scott Street  
Billings, MT 59101

**Date of Test:**

5/16/2016

**Test Number:**

2016-045

**Serial Number:**

1000's

All results contained within this report only relate to the item(s) listed in this report. This calibration report must not be used to claim product endorsement by the State of Montana or any other government agency.

Date these weights were received:

5/11/2016

Description and condition of artifacts received:

Items were in excellent condition. Gas@0.0, Hyd@250

**Environmental Conditions at Time of Test:**

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
22.40	20.20	670.56	41.20	40.00

**Conventional Mass Value:**

Assumed Density of Artifacts:

7.2 g/cm<sup>3</sup>

Nominal	Serial No.	As Found (g)	As Left (g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
1000 lb	2	3.1	3.1	5.8	45	2.28
1000 lb	3	14.1	14.1	5.8	45	2.28
1000 lb	1	27.1	27.1	5.8	45	2.28
1000 lb	5	17.1	17.1	5.8	45	2.28
1000 lb	124	20.1	20.1	5.8	45	2.28
1000 lb	1212	16.1	16.1	5.8	45	2.28
1000 lb	125	-0.9	-0.9	5.8	45	2.28
1000 lb	126	36.1	36.1	5.8	45	2.28
1000 lb	127	9.1	9.1	5.8	45	2.28

**Standards and Procedures used for testing:**

The Standards used for this comparison are continuously monitored by a measurement control program for ensuring continued accuracy and traceability within the level of uncertainty reported. These standards were calibrated by a nationally accredited laboratory on 10/2009 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken chain of comparison each having stated uncertainties. This information is on file and available upon request.

**Procedure Used: SOP-7**

All procedures used in this laboratory are in accordance to National Institute of Standards and Technology Intermediate Report (NISTIR) 6969, issue February 2012, and the *Quality Assurance of Metrological Measurements*.

**Traceability Statement:**

The equipment in this report has been compared to the standards of the State of Montana. The States equipment complies with the specifications and tolerances listed in NIST 105-1 Class F tolerances. The standards of the State of Montana are traceable to the SI through the National Institute of Standards and Technology.

**Uncertainty Statement:**

The expanded uncertainty presented in this report is consistent with the 1993 *ISO Guide to Expression of Uncertainty in Measurement* and follows *NISTIR 6969*, issue February 2012, SOP-29. The reported uncertainty is calculated by combining the uncertainty of the standard used, with the uncertainty of the measurement process in a root sum square formula using a calculated k factor, for a confidence level of 95.45%.

State Metrologist: *Dave Fraser*

*David Fraser*

Email: dafraser@mt.gov

This document shall not be reproduced except in full without prior written agreement given by the State Metrologist.



# Certificate of Mass Calibration

Montana Department of Labor & Industry Metrology Laboratory  
2801 N Cooke St. Helena, Montana 59601  
(406)449-2582 FAX (406)443-8163

**Company Name & Address:**  
 John McFerran  
 B & L Scales Inc.  
 351 Scott Street  
 Billings, MT 59101

**Date of Test:** 5/16/2016

**Test Number:** 2016-045

**Serial Number:** 1000's

All results contained within this report only relate to the item(s) listed in this report. This calibration report must not be used to claim product endorsement by the State of Montana or any other government agency.

Date these weights were received: 5/11/2016

Description and condition of artifacts received: Items were in excellent condition. Gas@0.0, Hyd@250

### Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
22.40	20.20	670.56	41.20	40.00

Conventional Mass Value: \_\_\_\_\_ Assumed Density of Artifacts: 7.2 g/cm<sup>3</sup>

Nominal	Serial No.	As Found (g)	As Left (g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
1000 lb	128	18.1	18.1	5.8	45	2.28
1000 lb	123	18.1	18.1	5.8	45	2.28
1000 lb	1211	21.1	21.1	5.8	45	2.28
1000 lb	1210	5.1	5.1	5.8	45	2.28
1000 lb	122	34.1	34.1	5.8	45	2.28
1000 lb	121	36.1	36.1	5.8	45	2.28
1000 lb	129	4.1	4.1	5.8	45	2.28
4000 lb	21642	-229	23	11	567	2.28

**Standards and Procedures used for testing:**  
 The Standards used for this comparison are continuously monitored by a measurement control program for ensuring continued accuracy and traceability within the level of uncertainty reported. These standards were calibrated by a nationally accredited laboratory on 10/2009 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken chain of comparison each having stated uncertainties. This information is on file and available upon request.

**Procedure Used:** SOP-7  
 All procedures used in this laboratory are in accordance to National Institute of Standards and Technology Intermediate Report (NISTIR) 6969, issue February 2012, and the *Quality Assurance of Metrological Measurements*.

**Traceability Statement:**  
 The equipment in this report has been compared to the standards of the State of Montana. The States equipment complies with the specifications and tolerances listed in NIST 105-1 Class F tolerances. The standards of the State of Montana are traceable to the SI through the National Institute of Standards and Technology.

**Uncertainty Statement:**  
 The expanded uncertainty presented in this report is consistent with the 1993 *ISO Guide to Expression of Uncertainty in Measurement* and follows *NISTIR 6969*, issue February 2012, SOP-29. The reported uncertainty is calculated by combining the uncertainty of the standard used, with the uncertainty of the measurement process in a root sum square formula using a calculated k factor, for a confidence level of 95.45%.

State Metrologist: Dave Fraser

*David Fraser*

Email: dafraser@mt.gov

This document shall not be reproduced except in full without prior written agreement given by the State Metrologist.



# Certificate of Mass Calibration

Montana Department of Labor & Industry Metrology Laboratory  
2801 N Cooke St. Helena, Montana 59601  
(406)449-2582 FAX (406)443-8163

**Company Name & Address:**

B & L Scales Inc.  
John McFerran  
351 Scott Street  
Billings, MT 59101

**Date of Test:**

5/17/2016

**Test Number:**

2016-049

**Kit Number**

No Kit #

All results contained within this report only relate to the item(s) listed in this report. This calibration report must not be used to claim product endorsement by the State of Montana or any other government agency.

Date these weights were received: 5/11/2016

Description and condition of artifacts received: Items were in good condition with no discernable defects.

**Environmental Conditions at Time of Test:**

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
20.35	21.21	670.81	40.12	41.59

**Conventional Mass Value:**

Assumed Density of Artifacts: 7.2 g/cm<sup>3</sup>

Nominal	Serial No.	As Found ± (g)	As Left ± (g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
50 lb	6	-2.23	0.26	0.30	2.3	2.28
50 lb	4	-3.66	0.26	0.30	2.3	2.28
50 lb	3	-4.66	0.21	0.30	2.3	2.28
50 lb	12	-2.39	0.18	0.30	2.3	2.28
50 lb	5	-1.30	-1.30	0.30	2.3	2.28
50 lb	11	-1.78	-1.78	0.30	2.3	2.28
50 lb	8	-1.93	-1.93	0.30	2.3	2.28
50 lb	7	-3.90	0.19	0.30	2.3	2.28
50 lb	1	-3.09	0.15	0.30	2.3	2.28

**Standards and Procedures used for testing:**

The Standards used for this comparison are continuously monitored by a measurement control program for ensuring continued accuracy and traceability within the level of uncertainty reported. These standards were calibrated by a nationally accredited laboratory on 10/2009 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken chain of comparison each having stated uncertainties. This information is on file and available upon request.

**Procedure Used: SOP-7**

All procedures used in this laboratory are in accordance to National Institute of Standards and Technology Intermediate Report (NISTIR) 6969, issue February 2012, and the *Quality Assurance of Metrological Measurements*.

**Traceability Statement:**

The equipment in this report has been compared to the standards of the State of Montana. The States equipment complies with the specifications and tolerances listed in NIST 105-1 Class F tolerances. The standards of the State of Montana are traceable to the SI through the National Institute of Standards and Technology.

**Uncertainty Statement:**

The expanded uncertainty presented in this report is consistent with the 1993 *ISO Guide to Expression of Uncertainty in Measurement* and follows *NISTIR 6969*, issue February 2012, SOP-29. The reported uncertainty is calculated by combining the uncertainty of the standard used, with the uncertainty of the measurement process in a root sum square formula using a calculated *k* factor, for a confidence level of 95.45%.

State Metrologist: *Dave Fraser*

*David Fraser*

Email: dafraser@mt.gov

This document shall not be reproduced except in full without prior written agreement given by the State Metrologist.



# Certificate of Mass Calibration

Montana Department of Labor & Industry Metrology Laboratory  
2801 N Cooke St. Helena, Montana 59601  
(406)449-2582 FAX (406)443-8163

**Company Name & Address:**

B & L Scales Inc.  
John McFerran  
351 Scott Street  
Billings, MT 59101

**Date of Test:**

5/17/2016

**Test Number:**

2016-049

**Kit Number**

No Kit #

All results contained within this report only relate to the item(s) listed in this report. This calibration report must not be used to claim product endorsement by the State of Montana or any other government agency.

Date these weights were received:

5/11/2016

Description and condition of artifacts received:

Items were in good condition with no discernable defects.

**Environmental Conditions at Time of Test:**

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
20.35	21.21	670.81	40.12	41.59

**Conventional Mass Value:**

Assumed Density of Artifacts:

7.2 g/cm<sup>3</sup>

Nominal	Serial No.	As Found ± (g)	As Left ± (g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
50 lb	10	-3.18	0.17	0.30	2.3	2.28
50 lb	9	-1.89	-1.89	0.30	2.3	2.28
50 lb	2	-4.20	0.29	0.30	2.3	2.28

**Standards and Procedures used for testing:**

The Standards used for this comparison are continuously monitored by a measurement control program for ensuring continued accuracy and traceability within the level of uncertainty reported. These standards were calibrated by a nationally accredited laboratory on 10/2009 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken chain of comparison each having stated uncertainties. This information is on file and available upon request.

Procedure Used: SOP-7

**Traceability Statement:**

The equipment in this report has been compared to the standards of the State of Montana. The States equipment complies with the specifications and tolerances listed in NIST 105-1 Class F tolerances. The standards of the State of Montana are traceable to the SI through the National Institute of Standards and Technology.

**Uncertainty Statement:**

The expanded uncertainty presented in this report is consistent with the 1993 ISO Guide to Expression of Uncertainty in Measurement and follows NISTIR 6969, issue February 2012, SOP-29. The reported uncertainty is calculated by combining the uncertainty of the standard used, with the uncertainty of the measurement process in a root sum square formula using a calculated k factor, for a confidence level of 95.45%.

State Metrologist: Dave Fraser

David Fraser

Email: dafraser@mt.gov

This document shall not be reproduced except in full without prior written agreement given by the State Metrologist.



# Certificate of Mass Calibration

Montana Department of Labor & Industry Metrology Laboratory  
2801 N Cooke St. Helena, Montana 59601  
(406)449-2582 FAX (406)443-8163

Company Name & Address:  Date of Test:  Test Number:   
 B & L Scales & Cutlery  5/17/2016  2016-048  
 John McFarren   
 351 Scott Street  Kit Number   
 Billings, MT 59101  25 lb

All results contained within this report only relate to the item(s) listed in this report. This calibration report must not be used to claim product endorsement by the State of Montana or any other government agency.

Date these weights were received:  5/11/2016   
 Description and condition of artifacts received:  Items were in good condition with no discernable defects.

### Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
22.59	23.57	670.81	41.02	41.67

Conventional Mass Value:  Assumed Density of Artifacts:  7.2 g/cm<sup>3</sup>

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ±(g)	NIST 105-1 Class F ±(g)	k factor
25 lb	6	-1.44	0.15	0.30	1.1	2.28
25 lb	3	-1.14	0.11	0.30	1.1	2.28
25 lb	5	-0.28	-0.28	0.30	1.1	2.28
25 lb	2	0.06	0.06	0.30	1.1	2.28
25 lb	1	-0.83	0.15	0.30	1.1	2.28
25 lb	7	-0.24	-0.24	0.30	1.1	2.28
25 lb	4	1.02	0.21	0.30	1.1	2.28

**Standards and Procedures used for testing:**  
 The Standards used for this comparison are continuously monitored by a measurement control program for ensuring continued accuracy and traceability within the level of uncertainty reported. These standards were calibrated by a nationally accredited laboratory on 10/2009 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken chain of comparison each having stated uncertainties. This information is on file and available upon request.

**Procedure Used: SOP-7**  
 All procedures used in this laboratory are in accordance to National Institute of Standards and Technology Intermediate Report (NISTIR) 6969, issue February 2012, and the *Quality Assurance of Metrological Measurements*.

**Traceability Statement:**  
 The equipment in this report has been compared to the standards of the State of Montana. The States equipment complies with the specifications and tolerances listed in NIST 105-1 Class F tolerances. The standards of the State of Montana are traceable to the SI through the National Institute of Standards and Technology.

**Uncertainty Statement:**  
 The expanded uncertainty presented in this report is consistent with the 1993 *ISO Guide to Expression of Uncertainty in Measurement* and follows *NISTIR 6969*, issue February 2012, SOP-29. The reported uncertainty is calculated by combining the uncertainty of the standard used, with the uncertainty of the measurement process in a root sum square formula using a calculated k factor, for a confidence level of 95.45%.

State Metrologist: Dave Fraser

*David Fraser*

Email: dafraser@mt.gov

This document shall not be reproduced except in full without prior written agreement given by the State Metrologist.



# Certificate of Mass Calibration

Montana Department of Labor & Industry Metrology Laboratory  
2801 N Cooke St. Helena, Montana 59601  
(406)449-2582 FAX (406)443-8163

**Company Name & Address:**

John McFerran  
B & L Scales Inc.  
351 Scott Street  
Billings, MT 59101

**Date of Test:**  
5/18/2016

**Test Number:**  
2016-046

**Kit Number**  
#1

All results contained within this report only relate to the item(s) listed in this report. This calibration report must not be used to claim product endorsement by the State of Montana or any other government agency.

Date these weights were received: 5/11/2016

Description and condition of artifacts received: Items were in good condition with some scratches.

**Environmental Conditions at Time of Test:**

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
21.94	20.27	668.02	41.02	40.12

**Conventional Mass Value:**

Assumed Density of Artifacts: 7.84 g/cm<sup>3</sup>

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ±(g)	NIST 105-1 Class F ±(g)	k factor
5 lb 1	100	0.061	0.061	0.017	0.23	2.28
5 lb 2	100	0.062	0.062	0.017	0.23	2.28
5 lb 3	100	0.063	0.063	0.017	0.23	2.28
5 lb 4	100	0.061	0.061	0.017	0.23	2.28
5 lb 5	100	0.062	0.062	0.017	0.23	2.28
1 lb 1	100	0.014	0.014	0.0022	0.07	2.28
1 lb 2	100	0.017	0.017	0.0022	0.07	2.28
1 lb 3	100	0.021	0.021	0.0022	0.07	2.28
1 lb 4	100	0.014	0.014	0.0022	0.07	2.28

**Standards and Procedures used for testing:**

The Standards used for this comparison are continuously monitored by a measurement control program for ensuring continued accuracy and traceability within the level of uncertainty reported. These standards were calibrated by a nationally accredited laboratory on 10/2009 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken chain of comparison each having stated uncertainties. This information is on file and available upon request.

**Procedure Used: SOP-7**

All procedures used in this laboratory are in accordance with National Institute of Standards and Technology Intermediate Report (NISTIR) 6969, issue February 2012, and the *Quality Assurance of Metrological Measurements*.

**Traceability Statement:**

The equipment in this report has been compared to the standards of the State of Montana. The States equipment complies with the specifications and tolerances listed in NIST 105-1 Class F tolerances. The standards of the State of Montana are traceable to the SI through the National Institute of Standards and Technology.

**Uncertainty Statement:**

The expanded uncertainty presented in this report is consistent with the 1993 *ISO Guide to Expression of Uncertainty in Measurement* and follows *NISTIR 6969*, issue February 2012, SOP-29. The reported uncertainty is calculated by combining the uncertainty of the standard used, with the uncertainty of the measurement process in a root sum square formula using a calculated k factor, for a confidence level of 95.45%.

State Metrologist: Dave Fraser

*David Fraser*

Email: dafraser@mt.gov

This document shall not be reproduced except in full without prior written agreement given by the State Metrologist.



# Certificate of Mass Calibration

Montana Department of Labor & Industry Metrology Laboratory  
2801 N Cooke St. Helena, Montana 59601  
(406)449-2582 FAX (406)443-8163

**Company Name & Address:**

John McFerran  
B & L Scales Inc.  
351 Scott Street  
Billings, MT 59101

**Date of Test:**  
5/18/2016

**Test Number:**  
2016-046

**Kit Number**  
#1

All results contained within this report only relate to the item(s) listed in this report. This calibration report must not be used to claim product endorsement by the State of Montana or any other government agency.

Date these weights were received: 5/11/2016

Description and condition of artifacts received: Items were in good condition with some scratches.

**Environmental Conditions at Time of Test:**

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
21.94	20.27	668.02	41.02	40.12

**Conventional Mass Value:**

Assumed Density of Artifacts: 7.84 g/cm<sup>3</sup>

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ±(g)	NIST 105-1 Class F ±(g)	k factor
1 lb 5	100	0.015	0.015	0.0022	0.07	2.28
8 oz	100	0.012	0.012	0.0022	0.045	2.28

**Standards and Procedures used for testing:**

The Standards used for this comparison are continuously monitored by a measurement control program for ensuring continued accuracy and traceability within the level of uncertainty reported. These standards were calibrated by a nationally accredited laboratory on 10/2009 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken chain of comparison each having stated uncertainties. This information is on file and available upon request.

**Procedure Used: SOP-7**

All procedures used in this laboratory are in accordance to National Institute of Standards and Technology Intermediate Report (NISTIR) 6969, issue February 2012, and the *Quality Assurance of Metrological Measurements*.

**Traceability Statement:**

The equipment in this report has been compared to the standards of the State of Montana. The States equipment complies with the specifications and tolerances listed in NIST 105-1 Class F tolerances. The standards of the State of Montana are traceable to the SI through the National Institute of Standards and Technology.

**Uncertainty Statement:**

The expanded uncertainty presented in this report is consistent with the 1993 *ISO Guide to Expression of Uncertainty in Measurement* and follows *NISTIR 6969*, issue February 2012, SOP-29. The reported uncertainty is calculated by combining the uncertainty of the standard used, with the uncertainty of the measurement process in a root sum square formula using a calculated *k* factor, for a confidence level of 95.45%.

State Metrologist: Dave Fraser

*David Fraser*

Email: dafraser@mt.gov

This document shall not be reproduced except in full without prior written agreement given by the State Metrologist.



# Certificate of Mass Calibration

Montana Department of Labor & Industry Metrology Laboratory  
2801 N Cooke St. Helena, Montana 59601  
(406)449-2582 FAX (406)443-8163

**Company Name & Address:**

John McFerran  
B & L Scales Inc.  
351 Scott Street  
Billings, MT 59101

**Date of Test:**

5/18/2016

**Test Number:**

2016-046

**Kit Number**

#1

All results contained within this report only relate to the item(s) listed in this report. This calibration report must not be used to claim product endorsement by the State of Montana or any other government agency.

Date these weights were received:

5/11/2016

Description and condition of artifacts received:

Items were in good condition with some scratches.

**Environmental Conditions at Time of Test:**

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
20.34	21.77	668.02	42.10	42.60

**Conventional Mass Value:**

Assumed Density of Artifacts:

7.84 g/cm<sup>3</sup>

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ±(g)	NIST 105-1 Class F ±(g)	k factor
0.2 lb	100	0.006 43	0.006 43	0.001 90	0.018	2.28
0.2 lb *	100	0.005 53	0.005 53	0.001 90	0.018	2.28
0.1 lb	100	0.001 06	0.001 06	0.001 00	0.009 1	2.28
0.05 lb	100	0.001 91	0.001 91	0.000 53	0.004 5	2.28
0.02 lb	100	0.000 44	0.000 44	0.000 34	0.001 8	2.28
0.02 lb *	100	0.000 05	0.000 05	0.000 34	0.001 8	2.28
0.01 lb	100	-0.000 79	-0.000 79	0.000 27	0.001 5	2.28
0.005 lb	100	0.000 17	0.000 17	0.000 31	0.001 2	2.28

**Standards and Procedures used for testing:**

The Standards used for this comparison are continuously monitored by a measurement control program for ensuring continued accuracy and traceability within the level of uncertainty reported. These standards were calibrated by a nationally accredited laboratory on 10/2009 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken chain of comparison each having stated uncertainties. This information is on file and available upon request.

**Procedure Used: SOP-7**

All procedures used in this laboratory are in accordance to National Institute of Standards and Technology Intermediate Report (NISTIR) 6969, issue February 2012, and the *Quality Assurance of Metrological Measurements*.

**Traceability Statement:**

The equipment in this report has been compared to the standards of the State of Montana. The States equipment complies with the specifications and tolerances listed in NIST 105-1 Class F tolerances. The standards of the State of Montana are traceable to the SI through the National Institute of Standards and Technology.

**Uncertainty Statement:**

The expanded uncertainty presented in this report is consistent with the 1993 *ISO Guide to Expression of Uncertainty in Measurement* and follows *NISTIR 6969*, issue February 2012, SOP-29. The reported uncertainty is calculated by combining the uncertainty of the standard used, with the uncertainty of the measurement process in a root sum square formula using a calculated k factor, for a confidence level of 95.45%.

State Metrologist: *Dave Fraser*

*David Fraser*

Email: [dafraser@mt.gov](mailto:dafraser@mt.gov)

This document shall not be reproduced except in full without prior written agreement given by the State Metrologist.



# Certificate of Mass Calibration

**Montana Department of Labor & Industry Metrology Laboratory**  
 2801 N Cooke St. Helena, Montana 59601  
 (406)449-2582 FAX (406)443-8163

**Company Name & Address:**

John McFerran  
 B & L Scales Inc.  
 351 Scott Street  
 Billings, MT 59101

**Date of Test:**  
 5/18/2016

**Test Number:**  
 2016-046

**Kit Number**  
 #1

All results contained within this report only relate to the item(s) listed in this report. This calibration report must not be used to claim product endorsement by the State of Montana or any other government agency.

Date these weights were received: 5/11/2016

Description and condition of artifacts received: Items were in good condition with some scratches.

**Environmental Conditions at Time of Test:**

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
21.82	21.99	663.45	41.23	42.17

**Conventional Mass Value:**

Assumed Density of Artifacts: 2.70 g/cm<sup>3</sup>

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
0.002 lb	100	-0.000 08	-0.000 08	0.000 14	0.000 87	2.28
0.002 lb *	100	-0.000 15	-0.000 15	0.000 14	0.000 87	2.28
0.001 lb	100	0.000 11	0.000 11	0.000 14	0.000 7	2.28

**Standards and Procedures used for testing:**

The Standards used for this comparison are continuously monitored by a measurement control program for ensuring continued accuracy and traceability within the level of uncertainty reported. These standards were calibrated by a nationally accredited laboratory on 10/2009 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken chain of comparison each having stated uncertainties. This information is on file and available upon request.

**Procedure Used: SOP-7**

All procedures used in this laboratory are in accordance to National Institute of Standards and Technology Intermediate Report (NISTIR) 6969, issue February 2012, and the *Quality Assurance of Metrological Measurements*.

**Traceability Statement:**

The equipment in this report has been compared to the standards of the State of Montana. The States equipment complies with the specifications and tolerances listed in NIST 105-1 Class F tolerances. The standards of the State of Montana are traceable to the SI through the National Institute of Standards and Technology.

**Uncertainty Statement:**

The expanded uncertainty presented in this report is consistent with the 1993 *ISO Guide to Expression of Uncertainty in Measurement* and follows *NISTIR 6969*, issue February 2012, SOP-29. The reported uncertainty is calculated by combining the uncertainty of the standard used, with the uncertainty of the measurement process in a root sum square formula using a calculated k factor, for a confidence level of 95.45%.

State Metrologist: *Dave Fraser*

*David Fraser*

Email: dafraser@mt.gov

This document shall not be reproduced except in full without prior written agreement given by the State Metrologist.

United States Department of Commerce  
National Institute of Standards and Technology

Certificate of Metrological Traceability For:

# Montana

This laboratory has demonstrated evidence of an unbroken chain of metrological traceability of its standards to the international system of units (SI), documented measurement uncertainties, uses documented measurement procedures, successfully completed training and proficiency tests, documented calibration intervals, submitted a quality management system, and demonstrated suitable measurement assurance for the Scope listed on this certificate.

The Office of Weights and Measures Program assesses laboratories to NIST Handbook 143 - Program Handbook for State Weights and Measures Laboratories and ISO/IEC 17025:2005.

### Scope

Mass Echelon III	Volume Transfer, II
30 kg to 1 mg	1500 gal to 5 gal
3000 lb to 0.001 lb	100 gal LPG to 25 gal LPG
8 oz to 0.03125 oz	
Weight Carts	
5000 lb to 2000 lb	



2016

A handwritten signature in black ink, appearing to read "Carol T. Hockert".

Carol T. Hockert, Chief  
NIST Office of Weights and Measures

Effective Dates: 2016-01-01 to 2016-12-31