



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&L SCALES INC	Email Address BLSCALES@BRESNAN.NET	Application Date 8/24/15	
Mailing Address 351 SCOTT ST	City BILLINGS	State MT	Zip Code 59101
Telephone Number 406-248-4531	Cell Phone Number	Fax Number 406-254-7005	

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 checked="" type="checkbox"/> 2. Truck <input checked="" type="checkbox"/> 3. Livestock <input checked="" type="checkbox"/> 4. Hopper: Max. Capacity: <u>100000</u> <input checked="" type="checkbox"/> 5. Belt <input checked="" type="checkbox"/> 6. Over 30 lbs.: Max. Capacity: <u>20000</u> <input checked="" type="checkbox"/> 7. 30 lbs. or less <input type="checkbox"/> 8. Class II (indicate on your calibration report which weight kit is Class II certified) <input type="checkbox"/> 9. Other: Please List:	<input type="checkbox"/> 1. Retail Fuel (less than 20 gal. per minute) <input type="checkbox"/> 2. High Flow Retail Fuel (20 gal. per minute or greater) <input type="checkbox"/> 3. Vehicle Tank: Max. Flow Rate: _____ <input type="checkbox"/> 4. Stationary Bulk (fuel or oil): Max. Flow Rate: _____ <input type="checkbox"/> 5. LPG <input type="checkbox"/> 6. Stationary LPG <input type="checkbox"/> 7. Fertilizer: Max. Flow Rate: _____ <input type="checkbox"/> 8. Chemical <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
1714	JOHN MCFERRAN	1, 2, 3, 4, 5, 6, 7



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

see ATTACHED

Additional Application Items (initial where appropriate):

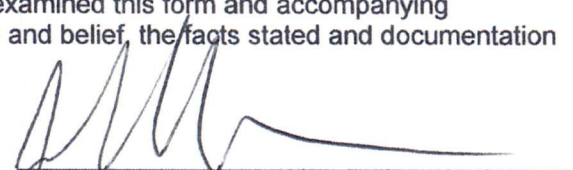
Standardized Test Report	<input type="checkbox"/> Copy enclosed
	<input type="checkbox"/> No change in report filed previously
Tested and Approved Sticker	<input checked="" type="checkbox"/> Copy enclosed
	<input checked="" type="checkbox"/> No change in sticker filed previously
Photocopy of Crimped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

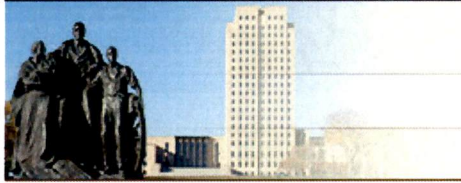
I am JOHN L McFERRAN, and have authority to represent this company. By signing this application, I declare that I have examined this form and accompanying documentation, and to the best of my knowledge and belief, the facts stated and documentation provided is true, correct, and complete.


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
SECRETARY

SECRETARY OF STATE NORTH DAKOTA

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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.

[2015](#) (generates a forms-fillable pdf in a new pop-up window)

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Will open a new window (pop-up).

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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:
John McFerran	6/8/2015	2015-069
B & L Scales Inc.		
351 Scott Street	Serial Number:	1000's
Billings, MT 59101		

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: 6/5/2015
Description and condition of artifacts received: Items were in excellent condition.

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 ³	
Nominal	Serial No.	As Found (g)	As Left (g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
1000 lb	125	14.1	14.1	5.8	45	2.28
1000 lb	1211	8.1	8.1	5.8	45	2.28
1000 lb	123	2.1	2.1	5.8	45	2.28
1000 lb	1	-4.9	-4.9	5.8	45	2.28
1000 lb	5	2.1	2.1	5.8	45	2.28
1000 lb	2	-6.9	-6.9	5.8	45	2.28
1000 lb	3	-5.9	-5.9	5.8	45	2.28
4000 lb	Cart	-118	-118	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

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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: 6/8/2015

Test Number: 2015-069

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: 6/5/2015
Description and condition of artifacts received: Items were in excellent condition.

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/cm³

Nominal	Serial No.	As Found (g)	As Left (g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
1000 lb	121	22.1	22.1	5.8	45	2.28
1000 lb	129	8.1	8.1	5.8	45	2.28
1000 lb	124	5.1	5.1	5.8	45	2.28
1000 lb	1212	30.1	30.1	5.8	45	2.28
1000 lb	127	-0.9	-0.9	5.8	45	2.28
1000 lb	128	16.1	16.1	5.8	45	2.28
1000 lb	1210	41.1	-0.9	5.8	45	2.28
1000 lb	122	18.1	18.1	5.8	45	2.28
1000 lb	126	28.1	28.1	5.8	45	2.28

Standards and Procedures used for testing:
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State Metrologist: Dave Fraser
David Fraser

Email: dafrazer@mt.gov
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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: 5/12/2015

Test Number: 2015-071

Serial Number: 2500 Cart

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: 6/10/2015
Description and condition of artifacts received: Items were in excellent condition.

Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
22.25	23.68	666.50	40.2	42.8

Conventional Mass Value: Assumed Density of Artifacts: 7.2 g/cm³

Nominal	Serial No.	As Found (g)	As Left (g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
2500 lb	141	25.4	25.4	7.7	110	2.28
2500 lb	142	78.4	78.4	7.7	110	2.28
2500 lb	143	13.4	13.4	7.7	110	2.28
2500 lb	140	76.0	76.0	7.7	227	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

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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.

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State Metrologist: Dave Fraser

David Fraser

Email: dafraser@mt.gov

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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 Inc.	3/31/2015	2015-055
John McFerran		Kit Number
351 Scott Street		No Kit #
Billings, MT 59101		

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: 3/30/2015
 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
21.1	21.15	668.53	47.27	47.11

Conventional Mass Value: Assumed Density of Artifacts: 7.2 g/cm³

Nominal	Serial No.	As Found ± (g)	As Left ± (g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
50 lb	24	1.66	1.66	0.30	2.3	2.28
50 lb	19	1.38	1.38	0.30	2.3	2.28
50 lb	22	2.25	0.46	0.30	2.3	2.28
50 lb	18	-3.11	0.26	0.30	2.3	2.28
50 lb	15	-0.75	-0.75	0.30	2.3	2.28
50 lb	25	1.61	1.61	0.30	2.3	2.28
50 lb	20	2.76	0.49	0.30	2.3	2.28
50 lb	17	0.94	0.94	0.30	2.3	2.28
50 lb	13	-0.73	-0.73	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
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State Metrologist: Dave Fraser

Email: dafraser@mt.gov
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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 Inc.	3/31/2015	2015-055
John McFerran		Kit Number
351 Scott Street		No Kit #
Billings, MT 59101		

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: 3/30/2015
 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
21.1	21.15	668.53	47.27	47.11

Conventional Mass Value: Assumed Density of Artifacts: 7.2 g/cm³

Nominal	Serial No.	As Found ± (g)	As Left ± (g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
50 lb	23	0.56	0.56	0.30	2.3	2.28
50 lb	16	-2.69	-2.69	0.30	2.3	2.28
50 lb	14	-1.44	-1.44	0.30	2.3	2.28
50 lb	21	1.10	1.10	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:
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Email: dafrazer@mt.gov

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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:

3/31/2015

Test Number:

2015-056

Kit Number

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:

3/30/2015

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
21.1	21.15	668.53	47.27	47.11

Conventional Mass Value:

Assumed Density of Artifacts:

7.2 g/cm³

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ±(g)	NIST 105-1 Class F ±(g)	k factor
25 lb	8	0.04	0.04	0.30	1.1	2.28
25 lb	14	0.79	0.79	0.30	1.1	2.28
25 lb	9	0.89	0.89	0.30	1.1	2.28
25 lb	12	0.71	0.71	0.30	1.1	2.28
25 lb	11	-0.66	-0.66	0.30	1.1	2.28
25 lb	13	1.08	0.27	0.30	1.1	2.28
25 lb	10	-0.60	-0.60	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.

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David Fraser

Email: dafraser@mt.gov

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2801 N Cooke St. Helena, Montana 59601
(406)449-2582 FAX (406)443-8163

Company Name & Address: Date of Test: Test Number:
 John McFerran 4/1/2015 2015-0057
 B & L Scales Inc. Kit Number:
 351 Scott Street 100
 Billings, MT 59101

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: 3/29/2015
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
20.58	20.66	664.72	42.71	43.85

Conventional Mass Value: Assumed Density of Artifacts: 7.84 g/cm³

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
5 kg 1	100	0.189	0.189	0.059	0.5	2.28
5 kg 2	100	0.203	0.203	0.059	0.5	2.28
2 kg 1	100	0.044	0.044	0.029	0.2	2.28
2 kg 2	100	0.049	0.049	0.029	0.2	2.28
1 kg	100	0.022	0.022	0.012	0.1	2.28
500 g 1	100	0.013 3	0.013 3	0.008 3	0.07	2.28
500 g 2	100	0.002 3	0.002 3	0.008 3	0.07	2.28
500 g 3	100	0.014 4	0.014 4	0.008 3	0.07	2.28
500 g 4	100	0.007 8	0.007 8	0.008 3	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.

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 (406)449-2582 FAX (406)443-8163

Company Name & Address:	Date of Test:	Test Number:
John McFerran	4/1/2015	2015-0057
B & L Scales Inc.		Kit Number
351 Scott Street		100
Billings, MT 59101		

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Date these weights were received: 3/29/2015
 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
20.58	20.66	664.72	42.71	43.85

Conventional Mass Value: _____ Assumed Density of Artifacts: 7.84 g/cm³

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
500 g 5	100	0.012 7	0.012 7	0.008 3	0.07	2.28
200 g 1	100	0.005 9	0.005 9	0.005 1	0.04	2.28
200 g 2	100	0.005 2	0.005 2	0.005 1	0.04	2.28

Standards and Procedures used for testing:
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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*

Email: dafraser@mt.gov
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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:
 John McFerran 4/1/2015 2015-0057
 B & L Scales Inc. Kit Number
 351 Scott Street 100
 Billings, MT 59101

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: 3/29/2015
 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
21.07	21.97	664.72	40.18	41.81

Conventional Mass Value: Assumed Density of Artifacts: 7.84 g/cm³

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
100 g	100	0.005 65	0.005 65	0.000 73	0.02	2.28
50 g	100	0.004 44	0.004 44	0.000 73	0.01	2.28
20 g	100	0.001 19	0.001 19	0.000 14	0.004	2.28
20 g *	100	0.000 57	0.000 57	0.000 14	0.004	2.28
10 g	100	0.000 62	0.000 62	0.000 14	0.002	2.28
5 g	100	0.000 30	0.000 30	0.000 27	0.001 5	2.28
2 g	100	0.000 45	0.000 45	0.000 27	0.001 1	2.28
2 g *	100	0.000 57	0.000 57	0.000 27	0.001 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
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(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:

4/1/2015

Test Number:

2015-0057

Kit Number

100

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Date these weights were received: 3/29/2015

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
22.04	22.87	664.72	41.28	42.45

Conventional Mass Value:

Assumed Density of Artifacts: 2.70 g/cm³

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
1 g	100	0.000 327	0.000 327	0.000 043	0.000 9	2.28
500 mg	100	0.000 301	0.000 301	0.000 043	0.000 72	2.28
200 mg	100	0.000 205	0.000 205	0.000 043	0.000 54	2.28
200 mg *	100	0.000 074	0.000 074	0.000 043	0.000 54	2.28
100 mg	100	0.000 203	0.000 203	0.000 013	0.000 43	2.28
50 mg	100	0.000 112	0.000 112	0.000 013	0.000 35	2.28
20 mg	100	0.000 128	0.000 128	0.000 013	0.000 26	2.28
20 mg *	100	0.000 128	0.000 128	0.000 013	0.000 26	2.28
10 mg	100	0.000 097	0.000 097	0.000 013	0.000 21	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.

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State Metrologist: Dave Fraser

David Fraser

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 2801 N Cooke St. Helena, Montana 59601
 (406)449-2582 FAX (406)443-8163

Company Name & Address:	Date of Test:	Test Number:
John McFerran	4/1/2015	2015-0057
B & L Scales Inc.		Kit Number
351 Scott Street		100
Billings, MT 59101		

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: 3/29/2015
 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
22.04	22.87	664.72	41.28	42.45

Conventional Mass Value:		Assumed Density of Artifacts:				
Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
5 mg	100	0.000 082	0.000 082	0.000 013	0.000 17	2.28
2 mg	100	0.000 059	0.000 059	0.000 015	0.000 12	2.28
1 mg	100	0.000 037	0.000 037	0.000 013	0.000 10	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

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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:

4/1/2015

Test Number:

2015-058

Kit Number

200

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:

3/29/2015

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
20.08	20.27	663.45	41.00	40.12

Conventional Mass Value:

Assumed Density of Artifacts:

7.84 g/cm³

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ±(g)	NIST 105-1 Class F ±(g)	k factor
5 lb 1	100	0.033	0.033	0.017	0.23	2.28
5 lb 2	100	0.028	0.028	0.017	0.23	2.28
5 lb 3	100	0.036	0.036	0.017	0.23	2.28
5 lb 4	100	0.039	0.039	0.017	0.23	2.28
5 lb 5	100	0.041	0.041	0.017	0.23	2.28
1 lb 1	100	0.031	0.031	0.0022	0.07	2.28
1 lb 2	100	0.026	0.026	0.0022	0.07	2.28
1 lb 3	100	0.026	0.026	0.0022	0.07	2.28
1 lb 4	100	0.009	0.009	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

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Certificate of Mass Calibration

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 2801 N Cooke St. Helena, Montana 59601
 (406)449-2582 FAX (406)443-8163

Company Name & Address:	Date of Test:	Test Number:
John McFerran	4/1/2015	2015-058
B & L Scales Inc.		Kit Number
351 Scott Street		200
Billings, MT 59101		

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: 3/29/2015
 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
20.08	20.27	663.45	41.00	40.12

Conventional Mass Value: Assumed Density of Artifacts: 7.84 g/cm³

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
1 lb 5	100	0.005	0.005	0.0022	0.07	2.28
8 oz	100	0.009	0.009	0.0022	0.045	2.28

Standards and Procedures used for testing:
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Company Name & Address: John McFerran
 B & L Scales Inc.
 351 Scott Street
 Billings, MT 59101

Date of Test: 4/1/2015

Test Number: 2015-058

Kit Number: 200

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Date these weights were received: 3/29/2015
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
20.34	21.77	663.45	42.10	42.60

Conventional Mass Value: Assumed Density of Artifacts: 7.84 g/cm³

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
0.2 lb	100	0.007 53	0.007 53	0.001 90	0.018	2.28
0.2 lb *	100	0.006 23	0.006 23	0.001 90	0.018	2.28
0.1 lb	100	0.003 86	0.003 86	0.001 00	0.009 1	2.28
0.05 lb	100	0.001 20	0.001 20	0.000 53	0.004 5	2.28
0.02 lb	100	0.000 40	0.000 40	0.000 34	0.001 8	2.28
0.02 lb *	100	0.000 35	0.000 35	0.000 34	0.001 8	2.28
0.01 lb	100	-0.000 51	-0.000 51	0.000 27	0.001 5	2.28
0.005 lb	100	-0.000 45	-0.000 45	0.000 31	0.001 2	2.28

Standards and Procedures used for testing:

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Company Name & Address:	Date of Test:	Test Number:
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B & L Scales Inc.		Kit Number
351 Scott Street		200
Billings, MT 59101		

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Date these weights were received: 3/29/2015
 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
21.82	21.99	663.45	41.23	42.17

Conventional Mass Value:		Assumed Density of Artifacts: 2.70 g/cm ³				
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 03	0.000 03	0.000 14	0.000 87	2.28
0.002 lb *	100	-0.000 02	-0.000 02	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:
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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

30 kg to 1 mg
3000 lb to 0.001 lb
8 oz to 0.03125 oz

Weight Carts

5000 lb to 2000 lb

Volume Transfer, II

1500 gal to 5 gal
100 gal LPG to 25 gal LPG



2015

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

Effective Dates: 2015-01-01 to 2015-12-31

