



# 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**

<b>Name of Company</b> Fairbanks Scales	<b>Email Address</b> Denver@Fairbanks.com	<b>Application Date</b> 11/29/2016	
<b>Mailing Address</b> 4850 Broadway	<b>City</b> Denver	<b>State</b> CO	<b>Zip Code</b> 80216
<b>Telephone Number</b> 303-209-5691	<b>Cell Phone Number</b> 720-839-1792	<b>Fax Number</b> 303-296-0269	

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: _____ <input type="checkbox"/> 5. Belt <input checked="" type="checkbox"/> 6. Over 30 lbs.: Max. Capacity: _____ <input 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
	Mark Conway	1, 2, 3, 4, 7
	Glen Meyer	1, 2, 3, 4, 7
	JOE ORDILE	1, 2, 3, 4, 7



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

6	
16-1000LB CUBES	} EXP 5-16
1-5000LB CANT	
11-50LB HAND WEIGHS	
1 GRAM KIT	
1 ENGLISH STANDARD KIT	


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 type="checkbox"/> Copy enclosed
	<input type="checkbox"/> No change in sticker filed previously
Photocopy of Crimped Lead Wire Seal	<input type="checkbox"/> Copy enclosed
	<input 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 Mark Conway, 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





  
**Fairbanks Scales**  
4650 Broadway  
Denver, CO 80216  
303-296-1216

**TESTED & APPROVED**

1	2	3	4
5	6	7	8
9	10	11	12
17	18	19	20

  
**Fairbanks Scales**  
4650 Broadway  
Denver, CO 80216  
303-296-1216

**TESTED & APPROVED**

1	2	3	4
5	6	7	8
9	10	11	12
17	18	19	20

North Dakota

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LEGENDARY

# SECRETARY OF STATE NORTH DAKOTA

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## FAIRBANKS SCALES INC.

### Corporation Details

**System ID:** 2987100      **Phone:** (816) 471-0231  
**Type:** FOREIGN BUSINESS CORPORATION  
**Status:** Active & Good Standing  
**Original File Date:** 03/31/1988      **Effective Date:** 03/31/1988  
**State of Origin:** Kansas

### Nature of Business

SALES AND SERVICE OF SCALES AND RELATED EQUIPMENT

### Principal Office

821 LOCUST ST KANSAS CITY, MO 64106-1908

### Registered Agent

**CORPORATION SERVICE COMPANY**  
1709 N 19TH ST STE 3  
BISMARCK, ND 58501-2121  
Established Date: Mar 01, 2010

### 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)

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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

<b>Company Name &amp; Address:</b>	<b>Date of Test:</b>	<b>Test Number:</b>
Joe Ordile	5/27/2016	2016-050
Fairbanks Scales	<b>Serial Number:</b> Assorted 1000's and 5000 Cart	
4850 Broadway		
Denver, CO 80216		

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: 5/23/2016  
 Description and condition of artifacts received: Items were in decent condition with no discernable defects.

**Environmental Conditions at Time of Test:**

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
21.95	21.15	666.50	22.36	47.11

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	113-01	13.1	13.1	5.8	45	2.28
1000 lb	113-20	-17.9	-17.9	5.8	45	2.28
1000 lb	113-02	-11.9	-11.9	5.8	45	2.28
1000 lb	113-28	-4.9	-4.9	5.8	45	2.28
1000 lb	113-23	8.1	8.1	5.8	45	2.28
1000 lb	113-05	30.1	30.1	5.8	45	2.28
1000 lb	113-38	8.1	8.1	5.8	45	2.28
1000 lb	116-32	-18.9	-18.9	5.8	45	2.28
1000 lb	113-03	-13.9	-13.9	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: [dafrazer@mt.gov](mailto:dafrazer@mt.gov)

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DEC 16 2016

ND Public Service

Commission

## Certificate of Mass Calibration

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

<b>Company Name &amp; Address:</b>	<b>Date of Test:</b>	<b>Test Number:</b>
Joe Ordile	5/27/2016	2016-050
Fairbanks Scales	<b>Serial Number:</b>	Assorted 1000's and 5000 Cart
4850 Broadway		
Denver, CO 80216		

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Date these weights were received: 5/23/2016

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

### Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
21.95	21.15	666.50	22.36	47.11

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	113-27	-19.9	-19.9	5.8	45	2.28
1000 lb	113-29	-40.9	0.1	5.8	45	2.28
1000 lb	113-04	-8.9	-8.9	5.8	45	2.28
1000 lb	113-06	-4.9	-4.9	5.8	45	2.28
1000 lb	113-37	-13.9	-13.9	5.8	45	2.28
1000 lb	113-31	-12.9	-12.9	5.8	45	2.28
1000 lb	113-25	6.1	6.1	5.8	45	2.28
5000 lb	5000 lb	195	195	15	680	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

Email: dafraser@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

<b>Company Name &amp; Address:</b> Joe Ordile Fairbanks Scales 4850 Broadway Denver, CO 80216	<b>Date of Test:</b> 5/25/2016	<b>Test Number:</b> 2016-055
	<b>Kit Number</b> 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: 5/23/2016  
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
21.23	22.58	669.04	41.54	42.42

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	4	2.33	0.16	0.30	2.3	2.28
50 lb	10	-0.02	-0.02	0.30	2.3	2.28
50 lb	7	0.13	0.13	0.30	2.3	2.28
50 lb	F-103	-5.37	0.04	0.30	2.3	2.28
50 lb	D-01	2.84	-0.22	0.30	2.3	2.28
50 lb	FWS-D-31	2.88	0.26	0.30	2.3	2.28
50 lb	FWS-D-21	-0.73	-0.73	0.30	2.3	2.28
50 lb	8	0.34	0.34	0.30	2.3	2.28
50 lb	5	0.68	0.68	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.

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*David Fraser*

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

<b>Company Name &amp; Address:</b>	<b>Date of Test:</b>	<b>Test Number:</b>
Joe Ordile	5/25/2016	2016-055
Fairbanks Scales		
4850 Broadway	<b>Kit Number</b>	
Denver, CO 80216	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: 5/23/2016  
 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
21.23	22.58	669.04	41.54	42.42

<b>Conventional Mass Value:</b>		<b>Assumed Density of Artifacts:</b>			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	260-M	-4.68	0.14	0.30	2.3	2.28
50 lb	1-D-255	-0.82	0.10	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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(406)449-2582 FAX (406)443-8163

**Company Name & Address:**

Joe Ordile  
Fairbanks Scales  
4850 Broadway  
Denver, CO 80216

**Date of Test:**

5/25/2016

**Test Number:**

2016-051

**Kit Number**

No I.D. #

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:

5/23/2016

Description and condition of artifacts received:

Items were in poor condition. Crushed case, filthy weights, no cover for box.

**Environmental Conditions at Time of Test:**

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
22.05	23.23	676.15	45.90	47.51

**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	No I.D. #	-0.248	-0.039	0.017	0.23	2.28
5 lb 2	No I.D. #	-0.247	-0.021	0.017	0.23	2.28
5 lb 3	No I.D. #	-0.194	0.006	0.017	0.23	2.28
5 lb 4	No I.D. #	-0.119	-0.119	0.017	0.23	2.28
5 lb 5	No I.D. #	-0.295	-0.005	0.017	0.23	2.28
1 lb 1	No I.D. #	-0.0055	-0.0055	0.002 2	0.07	2.28
1 lb 2	No I.D. #	0.0055	0.0055	0.002 2	0.07	2.28
1 lb 3	No I.D. #	-0.0123	-0.0123	0.002 2	0.07	2.28
1 lb 4	No I.D. #	-0.0085	-0.0085	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.

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

<b>Company Name &amp; Address:</b> Joe Ordile Fairbanks Scales 4850 Broadway Denver, CO 80216	<b>Date of Test:</b> 5/25/2016	<b>Test Number:</b> 2016-051
	<b>Kit Number</b> No I.D. #	

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: 5/23/2016  
Description and condition of artifacts received: Items were in poor condition. Crushed case, filthy weights, no cover for box.

### Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
23.00	24.47	676.15	58.80	47.10

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	No I.D. #	-0.0177	-0.0177	0.0022	0.07	2.28
8 oz	No I.D. #	0.0052	0.0052	0.0022	0.045	2.28
0.2 lb	No I.D. #	0.0025	0.0025	0.0019	0.0180	2.28
0.2 lb *	No I.D. #	0.0030	0.0030	0.0019	0.0180	2.28
0.1 lb	No I.D. #	0.0011	0.0011	0.0010	0.0091	2.28
0.05 lb	No I.D. #	0.00059	0.00059	0.00053	0.00450	2.28
0.02 lb	No I.D. #	0.00035	0.00035	0.00034	0.00180	2.28
0.02 lb *	No I.D. #	0.00029	0.00029	0.00034	0.00180	2.28
0.01 lb	No I.D. #	-0.00055	-0.00055	0.00027	0.00150	2.28

**Standards and Procedures used for testing:**  
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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

<b>Company Name &amp; Address:</b> Joe Ordile Fairbanks Scales 4850 Broadway Denver, CO 80216	<b>Date of Test:</b> 5/25/2016	<b>Test Number:</b> 2016-051
	<b>Kit Number</b> No I.D. #	

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### Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
23.00	24.47	676.15	58.80	47.10

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
0.005 lb	No I.D. #	-0.00018	-0.00018	0.00031	0.00120	2.28
0.002 lb	No I.D. #	-0.00011	-0.00011	0.00014	0.00087	2.28
0.002 lb *	No I.D. #	0.00067	0.00067	0.00014	0.00087	2.28
0.001 lb	No I.D. #	-0.00009	-0.00009	0.00014	0.0007	2.28

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 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

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

<b>Company Name &amp; Address:</b> Joe Ordile Fairbanks Scales 4850 Broadway Denver, CO 80216	<b>Date of Test:</b> 5/25/2016	<b>Test Number:</b> 2016-051
	<b>Kit Number</b> No I.D. #	

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: 5/23/2016  
Description and condition of artifacts received: Items were in poor condition. Crushed case, filthy weights, no cover for box

### Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
24.06	48.00	664.46	34.00	42.00

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

**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

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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

<b>Company Name &amp; Address:</b> Joe Ordile Fairbanks Scales 4850 Broadway Denver, CO 80216	<b>Date of Test:</b> 5/26/2016	<b>Test Number:</b> 2016-054
	<b>Kit Number</b> FB01A	

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: 5/23/2016  
 Description and condition of artifacts received: Items were scratched but in overall good condition.

### Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
22.34	23.23	674.12	40.25	41.57

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 A	FB01A	0.056	0.056	0.017	0.23	2.28
5 lb B	FB01A	0.077	0.077	0.017	0.23	2.28
5 lb C	FB01A	0.101	0.101	0.017	0.23	2.28
5 lb D	FB01A	0.095	0.095	0.017	0.23	2.28
5 lb E	FB01A	0.101	0.101	0.017	0.23	2.28
1 lb A	FB01A	0.0224	0.0224	0.002 2	0.07	2.28
1 lb B	FB01A	0.0193	0.0193	0.002 2	0.07	2.28
1 lb C	FB01A	0.0149	0.0149	0.002 2	0.07	2.28
1 lb D	FB01A	0.0109	0.0109	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 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

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

<b>Company Name &amp; Address:</b>		<b>Date of Test:</b>	<b>Test Number:</b>
Joe Ordile		5/26/2016	2016-054
Fairbanks Scales		<b>Kit Number</b>	
4850 Broadway		FB01A	
Denver, CO 80216			

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: 5/23/2016  
 Description and condition of artifacts received: Items were scratched but in overall good condition.

### Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
23.00	24.47	674.12	58.80	47.10

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 E	FB01A	0.0221	0.0221	0.0022	0.07	2.28
8 oz	FB01A	0.0114	0.0114	0.0022	0.045	2.28
0.2 lb	FB01A	0.0055	0.0055	0.0019	0.0180	2.28
0.2 lb *	FB01A	0.0077	0.0077	0.0019	0.0180	2.28
0.1 lb	FB01A	0.0029	0.0029	0.0010	0.0091	2.28
0.05 lb	FB01A	0.00097	0.00097	0.00053	0.00450	2.28
0.02 lb	FB01A	0.00036	0.00036	0.00034	0.00180	2.28
0.02 lb *	FB01A	-0.00045	-0.00045	0.00034	0.00180	2.28
0.01 lb	FB01A	-0.00043	-0.00043	0.00027	0.00150	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

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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

<b>Company Name &amp; Address:</b>		<b>Date of Test:</b>	<b>Test Number:</b>
Joe Ordile		5/26/2016	2016-054
Fairbanks Scales		<b>Kit Number</b>	
4850 Broadway		FB01A	
Denver, CO 80216			

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: 5/23/2016  
 Description and condition of artifacts received: Items were scratched but in overall good condition.

### Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
23.00	24.47	674.12	58.80	47.10

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
0.005 lb	FB01A	-0.00116	-0.00116	0.00031	0.00120	2.28
0.002 lb *	FB01A	-0.00008	-0.00008	0.00014	0.00087	2.28
0.002 lb **	FB01A	-0.00021	-0.00021	0.00014	0.00087	2.28
0.001 lb	FB01A	0.00010	0.00010	0.00014	0.0007	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*

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

<b>Company Name &amp; Address:</b> Joe Ordile Fairbanks Scales 4850 Broadway Denver, CO 80216	<b>Date of Test:</b> 5/25/2016	<b>Test Number:</b> 2016-052
	<b>Kit Number</b> #2	

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: 5/23/2016  
Description and condition of artifacts received: Items were in good condition.

### Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
22.26	23.23	666.75	41.00	42.56

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
8 oz	#2	0.0132	0.0132	0.0022	0.045	2.28
8 oz	#2	0.0080	0.0080	0.0022	0.045	2.28
8 oz	#2	0.0090	0.0090	0.0022	0.045	2.28
8 oz	#2	0.0166	0.0166	0.0022	0.045	2.28
8 oz	#2	0.0122	0.0122	0.0022	0.045	2.28
8 oz	#2	0.0100	0.0100	0.0022	0.045	2.28
8 oz	#2	0.0136	0.0136	0.0022	0.045	2.28
8 oz	#2	0.0110	0.0110	0.0022	0.045	2.28
8 oz	#2	0.0128	0.0128	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

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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

<b>Company Name &amp; Address:</b> Joe Ordile Fairbanks Scales 4850 Broadway Denver, CO 80216	<b>Date of Test:</b> 5/25/2016	<b>Test Number:</b> 2016-052
	<b>Kit Number</b> #2	

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: 5/23/2016  
 Description and condition of artifacts received: Items were in good condition.

**Environmental Conditions at Time of Test:**

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
23.00	24.47	666.75	58.80	47.10

<b>Conventional Mass Value:</b>			<b>Assumed Density of Artifacts:</b>		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
8 oz	#2	0.0208	0.0208	0.0022	0.045	2.28
8 oz	#2	0.0204	0.0204	0.0022	0.045	2.28
8 oz	#2	0.0124	0.0124	0.0022	0.045	2.28
8 oz	#2	0.0162	0.0162	0.0022	0.045	2.28
8 oz	#2	0.0102	0.0102	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

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

<b>Company Name &amp; Address:</b>		<b>Date of Test:</b>	<b>Test Number:</b>
Joe Ordile		5/23/2016	2016-053
Fairbanks Scales			<b>Kit Number</b> FB026
4850 Broadway			
Denver, CO 80216			

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: 5/25/2016  
 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
20.44	22.64	666.75	40.43	42.57

<b>Conventional Mass Value:</b>		<b>Assumed Density of Artifacts:</b>			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
500 g	FB026	0.0084	0.0084	0.0083	0.07	2.28
200 g	FB026	0.0171	0.0171	0.0051	0.04	2.28
200 g *	FB026	0.0066	0.0066	0.0051	0.04	2.28
100 g	FB026	0.00590	0.00590	0.00073	0.02	2.28
50 g	FB026	0.00085	0.00085	0.00073	0.01	2.28
20 g	FB026	0.00141	0.00141	0.00014	0.004	2.28
20 g *	FB026	0.00119	0.00119	0.00014	0.004	2.28
10 g	FB026	0.00090	0.00090	0.00014	0.002	2.28
2 g	FB026	0.00017	0.00017	0.00027	0.0011	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

<b>Company Name &amp; Address:</b> Joe Ordile Fairbanks Scales 4850 Broadway Denver, CO 80216	<b>Date of Test:</b> 5/26/2016	<b>Test Number:</b> 2016-056
	<b>Kit Number</b> FB01G	

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: 5/23/2016  
 Description and condition of artifacts received: Larger weights had some scratches, smaller weights had few defects.

### Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
21.23	22.19	671.83	41.52	42.38

<b>Conventional Mass Value:</b>		<b>Assumed Density of Artifacts:</b>			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 kg	FB01G	0.037	0.037	0.012	0.1	2.28
500 g	FB01G	0.008 2	0.008 2	0.008 3	0.07	2.28
200 g - 1	FB01G	0.017 3	0.017 3	0.005 1	0.04	2.28
200 g - 2	FB01G	0.006 1	0.006 1	0.005 1	0.04	2.28
100 g	FB01G	0.006 9	0.006 9	0.000 7	0.02	2.28
50 g	FB01G	0.001 9	0.001 9	0.000 7	0.01	2.28
20 g -1	FB01G	0.000 6	0.000 6	0.000 1	0.004	2.28
20 g -2	FB01G	0.000 9	0.000 9	0.000 1	0.004	2.28
10 g	FB01G	0.000 5	0.000 5	0.000 1	0.002	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

<b>Company Name &amp; Address:</b> Joe Ordile Fairbanks Scales 4850 Broadway Denver, CO 80216	<b>Date of Test:</b> 5/26/2016	<b>Test Number:</b> 2016-056
	<b>Kit Number</b> FB01G	

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: 5/23/2016  
Description and condition of artifacts received: Larger weights had some scratches, smaller weights had few defects.

### Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
20.44	20.90	661.92	40.43	40.56

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 g	FB01G	0.000 18	0.000 18	0.000 27	0.001 5	2.28
2 g-1	FB01G	0.000 15	0.000 15	0.000 27	0.001 1	2.28
2 g-2	FB01G	0.000 47	0.000 47	0.000 27	0.001 1	2.28
1 g	FB01G	0.000 35	0.000 35	0.000 04	0.000 9	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*

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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	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

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

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