



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 ROCKY MOUNTAIN SCALE WORKS		Email Address todd@scaler911.com		Application Date 4-20-2015	
Mailing Address PO BOX 1056		City LOLO		State MT	Zip Code 59847
Telephone Number 406-543-5181		Cell Phone Number 406-207-4393		Fax Number 406-543-5182	

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>40,000</u> <input checked="" type="checkbox"/> 5. Belt <input checked="" type="checkbox"/> 6. Over 30 lbs.: Max. Capacity: <u>300</u> <input type="checkbox"/> 7. 30 lbs. or less <input checked="" 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
1724	TIMOTHY DYLAN MOSES	SCALES 1, 2, 3, 4, 5, 6, 8

Continued on Page 2



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

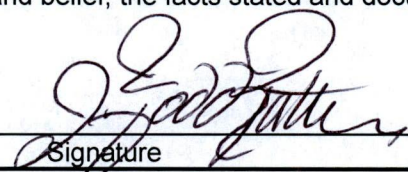
Additional Application Items (initial where appropriate):

Standardized Test Report	<input checked="" type="checkbox"/> Copy enclosed <input checked="" 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 J. TODD RATHER, 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.



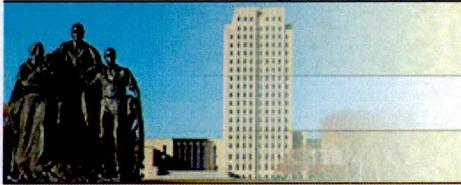
Signature

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 Government



SECRETARY OF STATE NORTH DAKOTA



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ROCKY MOUNTAIN SCALE WORKS

Trade Name

System ID: 33561000	Phone: (406) 543-5181
Status: Active	
Original File Date: 02/05/2013	Last Renewal Date:

Nature of Business

SCALE SALES AND SERVICE

Owners

RATHER ENTERPRISES, INC.
 6360 HWY 12 W
 PO BOX 1056
 LOLO, MT 59847-1056

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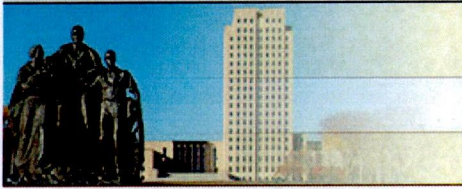
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RATHER ENTERPRISES, INC.

Corporation Details

System ID: 33560900 **Phone:** (800) 700-5048
Type: FOREIGN BUSINESS CORPORATION
Status: Active & Good Standing
Original File Date: 02/05/2013 **Effective Date:** 02/05/2013
State of Origin: Montana

Nature of Business

SCALE SALES AND SERVICE

Principal Office

6360 HWY 12 W PO BOX 1056 LOLO, MT 59847-1056

Registered Agent

JIM ROBERTS
1217 HIGHWAY 85 SW
FAIRFIELD, ND 58627-9433
Established Date: Jul 17, 2014


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.

[2014](#) [2015](#) (generates a forms-fillable pdf in a new pop-up window)

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**SOUTH DAKOTA
DEPARTMENT OF PUBLIC SAFETY**

**Office of Weights and Measures
Metrology Lab**

Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697



REPORT OF CALIBRATION

LAB TEST NUMBER: MP3383
DATE OF REPORT: 04/28/2015
DATE RECEIVED: 04/27/2015
DATE OF TEST: 04/28/2015

Submitted By: Rocky Mountain Scale Works

Contact: Todd Rather

Mailing Address: 5535 Interstate Ave

City, State, Zip: Billings MT 59101

Phone: 406-239-0228

S/A Number:

6360 US Hwy 12 West, PO Box 1056

Lolo, MT 59847-1056

Standards Submitted:

12 -1000 LB TEST WEIGHTS
1 -WEIGHT CARTS

Uncertainty Statement: The combined standard uncertainty includes the standard uncertainty reported for the standard, the standard uncertainty for the measurement process, and a component of uncertainty to account for any observed deviations from values that are less than surveillance limits. The combined standard uncertainty is multiplied by a coverage factor k to provide an expanded uncertainty, which defines an interval having a level of confidence of approximately 95 percent. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement. The expanded uncertainty is not to be confused with a tolerance limit for the user during application. All established Uncertainties are less than 1/3 applicable Class "F" tolerances.

Traceability statement:

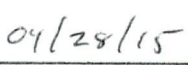
The Standards of the SD Metrology Laboratory are traceable to the International System of Units (SI) through the National Institute of Standards and Technology. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability for artifacts identified in this report only.

The artifacts submitted for calibration have been examined by the State of South Dakota and found to be appropriate for the intended use and to be accurate within Class "F" Tolerances as established by the National Institute of Standards and Technology-Weights and Measures Division. Test methods are in accordance with NIST Handbook 145 and NIST IR 6969 and/or NIST IR 7383.

This document does not represent or imply endorsement by NIST Office of Weights and Measures, NMI, or any agency of the State and/or national governments. The reported test values relate only to the observations made at the time and conditions of the test. This report may not be reproduced, except in full without the written approval of this laboratory. The client must not use this document to claim product endorsement by this laboratory.


Ron Peterson, Metrologist




Date



SOUTH DAKOTA WEIGHTS AND MEASURES / METROLOGY LAB

Lab: 1500 N. Garfield-E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre, SD 57501

Submitted by:	Rocky Mountain Scale Works	Report Number:	MP3383
Mailing Address:	5535 Interstate Ave	Date Received:	04/27/15
City, State, Zip:	Billings MT 59101	Date tested:	04/28/15
Manufacturer:	B-TEK Scales	Condition of Cart:	GOOD
Serial Number:	16278B	Temperature (c):	20.0
Test Method Used:	SOP 33/ Double Sub.	Humidity:	40.0%
Nominal (lb):	4500	Pressure (mm/Hg):	722.4
Tolerance (lb):	1.25		

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory.

As Found (lb)	As Left (lb)	Uncertainty-lb. (K=2)
-0.18	-0.18	0.20

The weight cart was cleaned and painted (if needed) and allowed to come to environmental equilibrium in the laboratory prior to calibration. The weight cart was adjusted, as needed and noted above, as close as possible to zero error. All fluid levels were adjusted as close as possible to the full/reference marks. Liquid levels must be maintained as close to reference levels as possible during use. Any maintenance, repairs or damage to weight cart or its components will likely result in an out-of-tolerance condition; therefore, maintenance or replacement of components such as batteries, tires, filters, etc. will require calibration of the weight cart prior to subsequent use.

This weight cart and associated uncertainties were evaluated against NIST Handbook 105-8 Specifications and Tolerances for Field Standard Weight Carts and was within tolerance at the time of calibration.

The above weight cart was compared with standards of the State of South Dakota, which are traceable the National Institute of Standards and Technology(NIST) Weights and Measures Division and have known values. The assigned test number provides documented evidence for measurement traceability.



Ron Peterson, Metrologist

04/28/2015

Date of Report



SOUTH DAKOTA WEIGHTS AND MEASURES / METROLOGY LAB

Lab: 1500 N. Garfield-E. Truck Bypass Phone: 605-773-3170

Office: 118 West Capitol Avenue Phone: 605-773-3697

Pierre, SD 57501

Submitted by:	Rocky Mountain Scale Works	Report Number:	MP3383
Mailing Address:	5535 Interstate Ave	Date Received:	04/27/15
City, State, Zip:	Billings MT 59101	Date tested:	04/28/15
Artifacts Submitted	1000 lb test weights	Condition of Weights:	FAIR
Manufacturer:	Rice Lake	Temperature (c):	22.6
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	47%
Equipment Used:	Russell Balance/ Vaisala PTU301	Pressure (mm/Hg):	722.5

Treatment of artifacts prior to testing: Thermal equilibrium time/conditions were obtained by placing the artifacts in the lab overnight.

Compliance Statement: These weights and associated uncertainties were evaluated against NIST Handbook 105-1 NIST Class F tolerances and the weights were within tolerance at the time of calibration.

Standards Used: SD Lab 1000 lb and/or 500 lb Working Standards.

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so

Nominal	Serial Number	Correction		Correction		Tolerance	Uncertainty	K
		As Found		As Left				
1000 lb	07	0.013 lb	5.9 g	0.013 lb	5.9 g	45 g	7 g	2.05
1000 lb	08	0.024 lb	10.8 g	0.024 lb	10.8 g	45 g	7 g	2.05
1000 lb	4N8X	0.024 lb	10.9 g	0.024 lb	10.9 g	45 g	7 g	2.05
1000 lb	4N8Y	-0.014 lb	-6.2 g	-0.014 lb	-6.2 g	45 g	7 g	2.05
1000 lb	4N90	0.005 lb	2.3 g	0.005 lb	2.3 g	45 g	7 g	2.05
1000 lb	4N91	0.034 lb	15.5 g	0.034 lb	15.5 g	45 g	7 g	2.05
1000 lb	54EK	0.047 lb	21.2 g	0.047 lb	21.2 g	45 g	7 g	2.05
1000 lb	54EM	0.045 lb	20.2 g	0.045 lb	20.2 g	45 g	7 g	2.05
1000 lb	54EP	0.024 lb	11.1 g	0.024 lb	11.1 g	45 g	7 g	2.05
1000 lb	54ER	0.037 lb	16.9 g	0.037 lb	16.9 g	45 g	7 g	2.05
1000 lb	54ES	0.047 lb	21.4 g	0.047 lb	21.4 g	45 g	7 g	2.05
1000 lb	M8N7	0.030 lb	13.6 g	0.030 lb	13.6 g	45 g	7 g	2.05


Ron Peterson, Metrologist

04/28/2015
Date of Report

United States Department of Commerce

National Institute of Standards and Technology

Certificate of Metrological Traceability For:

South Dakota

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 50 mg
1000 lb to 0.001 lb
8 oz to 0.03125 oz

Weight Carts

5000 lb to 2000 lb

Volume Transfer, II

5 gal



2015

A handwritten signature in blue ink, reading "Carol T. Hockert".

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

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



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:

Ben Johnson
Rocky Mountain Scale
125 East Main Street
Missoula, MT 59802

Date of Test:

2/18/2015

Test Number:

2015-031

Serial Number:

1000 lb x 4

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:

2/17/2015

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
21.48	20.4	668.53	40.25	42.68

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	1	453,597.6	453,597.6	6.2	45	2.28
1000 lb	2	453,616.6	453,616.6	6.2	45	2.28
1000 lb	3	453,601.6	453,601.6	6.2	45	2.28
1000 lb	4	453,604.6	453,604.6	6.2	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

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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: Rocky Mountain Scale Works 6360 U.S. Hwy 12 Lolo, MT 59847 (406) 543-5181	Date of Test: 3/10/2015	Test Number: 2015-045
	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: 3/10/2015
Description and condition of artifacts received: Items were in good condition with some visible rust defects.

Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
24.28	21.15	666.24	43.7	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	39	1.08	1.08	0.30	2.3	2.28
50 lb	1020	1.44	1.44	0.30	2.3	2.28
50 lb	270	1.99	-0.04	0.30	2.3	2.28
50 lb	38	2.39	0.32	0.30	2.3	2.28
50 lb	218	1.44	1.44	0.30	2.3	2.28
50 lb	1022	1.69	1.69	0.30	2.3	2.28
50 lb	20	5.76	0.01	0.30	2.3	2.28
50 lb	40	1.47	1.47	0.30	2.3	2.28
50 lb	1088	2.93	-0.07	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

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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: Rocky Mountain Scale Works 6360 U.S. Hwy 12 Lolo, MT 59847 (406) 543-5181	Date of Test: 3/10/2015	Test Number: 2015-045
	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: 3/10/2015
Description and condition of artifacts received: Items were in good condition with some visible rust defects.

Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
24.28	21.15	666.24	43.7	47.11

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
50 lb	36	1.76	1.76	0.30	2.3	2.28
50 lb	2055	3.06	0.22	0.30	2.3	2.28
50 lb	2010	3.75	0.35	0.30	2.3	2.28
50 lb	208	2.30	-0.01	0.30	2.3	2.28
50 lb	205	1.81	1.81	0.30	2.3	2.28
50 lb	1021	3.29	0.34	0.30	2.3	2.28
50 lb	43	2.96	0.30	0.30	2.3	2.28
50 lb	1005	2.83	0.18	0.30	2.3	2.28
50 lb	1008	2.45	0.27	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:

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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:	Date of Test:	Test Number:
Rocky Mountain Scale Works	3/10/2015	2015-045
6360 U.S. Hwy 12		
Lolo, MT 59847	Kit Number	
(406) 543-5181	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: 3/10/2015
 Description and condition of artifacts received: Items were in good condition with some visible rust defects.

Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
24.28	21.15	666.24	43.7	47.11

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
50 lb	31	2.24	0.09	0.30	2.3	2.28
50 lb	1062	2.35	0.30	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%.

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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: Rocky Mountain Scale Works 6360 U.S. Hwy 12 Lolo, MT 59847 (406) 543-5181	Date of Test: 3/10/2015	Test Number: 2015-044
	Kit Number OC1-J / 28CC	

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: 3/10/2015
 Description and condition of artifacts received: Items were in excellent condition with no discernable defects.

Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
20.50	21.68	665.73	41.85	42.65

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
10 lb	OC1-J	0.195	0.195	0.017	0.45	2.28
5 lb	OC1-J	0.135	0.135	0.017	0.23	2.28
2 lb	OC1-J	0.068	0.068	0.017	0.091	2.28
1 lb	OC1-J	0.022 4	0.022 4	0.002 2	0.07	2.28
8 oz	OC1-J	0.011 7	0.011 7	0.002 2	0.045	2.28
500 g	28CC	0.016 8	0.016 8	0.008 1	0.07	2.28
200 g	28CC	0.009 7	0.009 7	0.004 8	0.04	2.28
200 g *	28CC	0.009 4	0.009 4	0.004 8	0.04	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: Rocky Mountain Scale Works 6360 U.S. Hwy 12 Lolo, MT 59847 (406) 543-5181	Date of Test: 3/10/2015	Test Number: 2015-044
	Kit Number OCI-J	

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: 3/10/2015
 Description and condition of artifacts received: Items were in excellent 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	24.23	665.73	41.36	41.87

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
4 oz	OCI-J	-0.012 27	-0.012 27	0.000 74	0.023	2.28
2 oz	OCI-J	0.006 56	0.006 56	0.000 74	0.011	2.28
1 oz	OCI-J	-0.000 26	-0.000 26	0.000 74	0.005 4	2.28
1/2 oz	OCI-J	0.002 62	0.002 62	0.000 28	0.002 8	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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Montana Department of Labor & Industry Metrology Laboratory
2801 N Cooke St. Helena, Montana 59601
(406)449-2582 FAX (406)443-8163

Company Name & Address: Rocky Mountain Scale Works 6360 U.S. Hwy 12 Lolo, MT 59847 (406) 543-5181	Date of Test: 3/10/2015	Test Number: 2015-044
	Kit Number 28CC	

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: 3/10/2015
Description and condition of artifacts received: Items were in excellent 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	24.23	665.73	41.36	41.87

Conventional Mass Value:		Assumed Density of Artifacts:		7.84 g/cm ³		
Nominal	Serial No.	As Found (g)	As Left (g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
100 g	28CC	0.005 55	0.005 55	0.000 73	0.02	2.28
50 g	28CC	0.003 00	0.003 00	0.000 73	0.01	2.28
20 g	28CC	0.000 35	0.000 35	0.000 14	0.004	2.28
20 g *	28CC	0.001 02	0.001 02	0.000 14	0.004	2.28
10 g	28CC	0.000 74	0.000 74	0.000 14	0.002	2.28
5 g	28CC	0.000 15	0.000 15	0.000 27	0.0015	2.28
2 g	28CC	0.000 04	0.000 04	0.000 27	0.001 1	2.28
2 g *	28CC	0.000 37	0.000 37	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

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*.

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Uncertainty Statement:

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State Metrologist: Dave Fraser

David Fraser

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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: Rocky Mountain Scale Works 6360 U.S. Hwy 12 Lolo, MT 59847 (406) 543-5181	Date of Test: 3/10/2015	Test Number: 2015-044
	Kit Number 28CC	

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: 3/10/2015
 Description and condition of artifacts received: Items were in excellent condition with no discernable defects.

Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
24.23	24.33	665.73	41.80	42.00

Conventional Mass Value:		Assumed Density of Artifacts:		7.84 g/cm ³		
Nominal	Serial No.	As Found (g)	As Left (g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
1 g	28CC	0.000 37	0.000 37	0.000 04	0.000 90	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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Uncertainty Statement:
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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.

2015

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

A handwritten signature in blue ink, reading "Carol T. Hockert".

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

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