



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 <i>Montana Distributor Scale Inc</i>	Email Address <i>MDSS@montanadistributorscale.com</i>	Application Date <i>10-25-16</i>	
Mailing Address <i>13215 Howe Ave E</i>	City <i>Fairview</i>	State <i>MT</i>	Zip Code <i>59221</i>
Telephone Number <i>406 742 8844</i>	Cell Phone Number <i>406 462 2264</i>	Fax Number <i>406 742 8844</i>	

Select below all device types your company will certify:

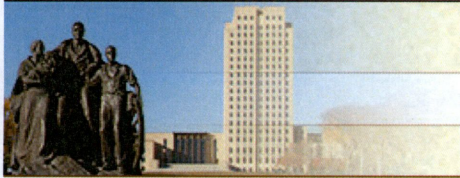
Scales (include maximum capacity, if applicable)	Liquid (include maximum flow rate, if applicable)
<input checked="" type="checkbox"/> 1. Rail <input checked="" type="checkbox"/> 2. Truck <input checked="" type="checkbox"/> 3. Livestock <input checked="" type="checkbox"/> 4. Hopper: Max. Capacity: _____ <input type="checkbox"/> 5. Belt <input checked="" type="checkbox"/> 6. Over 30 lbs.: Max. Capacity: _____ <input 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)
<i>e.g. 1001</i>	<i>e.g. John Doe</i>	<i>e.g. Scales - 2, 3, 6, 8; e.g. Liquid - 1, 2, 6</i>
<i>1454</i>	<i>Lance Westler</i>	<i>2, 4, 6, 7</i>

Continued on Page 2

North Dakota

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MONTANA DAKOTA SCALE SERVICE, INC.

Corporation Details

System ID: 37547300**Phone:** (406) 742-5944**Type:** FOREIGN BUSINESS CORPORATION**Status:** Active & Good Standing**Original File Date:** 09/16/2014**Effective Date:** 09/16/2014**State of Origin:** Montana

Nature of Business

SCALE INSTALLATION & REPAIR

Principal Office

13217 HIGHWAY 200 FAIRVIEW, MT 59221-9447

Registered Agent

GIMBEL BUSINESS SERVICE LLC

147 MAIN ST

PO BOX 265

HAZELTON, ND 58544-0265

Established Date: Sep 16, 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.

[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

Company Name & Address: Lance Waller Montana-Dakota Scale Service Route 1, Box 1640 Fairview, MT 59221	Date of Test: 10/11/2016	Test Number: 2016-072
Serial Number: 3 x 2500 + Weight 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: 10/11/2016
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
20.18	21.25	670.81	40.11	41.02

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 ± (g)	F k factor
2500 lb	03X6	22.4	22.4	7.2	110	2.13
2500 lb	2	-22.7	-22.7	7.2	110	2.13
2500 lb	3	-41.6	-41.6	7.2	110	2.13
2500 lb	Cart	-204.3	51.2	7.2	227	2.13

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 1 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken 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 (NIST 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 the National Institute of Standards and Technology.

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

State Metrologist *Dave Fraser*

David Fraser

Email: dfraser@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:
Lance Waller	10/13/2016	2016-075
Montana-Dakota Scale Service	Serial Number:	1000's
Route 1, Box 1640		
Fairview, MT 59221		

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: 10/12/2016

Description and condition of artifacts received: Items were in good condition. 5J1K was wet inside.

Environmental Conditions at Time of Test:

Temperature °C		Pressure mmHg	Relative Humidity %	
Start	End	Duration of Test	Start	End
22.03	23.57	670.81	41.95	41.54

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	8	25.1	25.1	5.5	45	2.13
1000 lb	5	-2.9	-2.9	5.5	45	2.13
1000 lb	6	-18.9	-18.9	5.5	45	2.13
1000 lb	4	-20.0	-20.0	5.5	45	2.13
1000 lb	0PVR	-25.9	-25.9	5.5	45	2.13
1000 lb	0PVS	-2.9	-2.9	5.5	45	2.13
1000 lb	5J1L	17.1	-0.9	5.8	45	2.13
1000 lb	5J1K	80.1	6.1	5.8	45	2.13
2000 lb	Cart	-227.1	34.3	6.2	227	2.13

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 1 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken 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

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:
Lance Waller	10/13/2016	2016-074
Montana-Dakota Scale Service		
Route 1, Box 1640	Kit Number	
Fairview, MT 59221	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: 10/11/2016
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
21.21	22.56	670.81	36.54	37.32

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	12	-10.74	-0.39	0.28	2.3	2.13
50 lb	20	-3.39	-0.31	0.28	2.3	2.13
50 lb	18	-11.03	-0.38	0.28	2.3	2.13
50 lb	6	-15.26	-0.33	0.28	2.3	2.13
50 lb	1	-9.85	-0.35	0.28	2.3	2.13
50 lb	8	-12.23	-0.27	0.28	2.3	2.13
50 lb	22	-8.06	-0.16	0.28	2.3	2.13
50 lb	11	-11.11	-0.33	0.28	2.3	2.13
50 lb	10	-4.84	-0.21	0.28	2.3	2.13

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 1 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken 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 the National Institute of Standards and Technology.

Uncertainty Statement:

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

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:	Date of Test:	Test Number:
Lance Waller	10/11/2016	2016-073
Montana-Dakota Scale Service		Kit Number
Route 1, Box 1640		No Kit #
Fairview, MT 59221		

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: 10/11/2016

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
22.98	24.23	668.53	40.1	42.73

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	16	-8.99	-0.31	0.28	2.3	2.13
50 lb	19	-8.32	-0.26	0.28	2.3	2.13
50 lb	21	-9.26	-0.33	0.28	2.3	2.13
50 lb	2	-13.09	-0.29	0.28	2.3	2.13
50 lb	13	-8.18	-0.28	0.28	2.3	2.13
50 lb	15	-8.17	-0.31	0.28	2.3	2.13
50 lb	17	-16.10	-0.26	0.28	2.3	2.13
50 lb	4	-7.94	-0.34	0.28	2.3	2.13

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 1 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken 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 the National Institute of Standards and Technology.

Uncertainty Statement:

The expanded uncertainty presented in this report is consistent with the *VIM Guide to Expression of Uncertainty in Measurement* 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 calculator, for a confidence level of 95.45%.

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

Company Name & Address:	Date of Test:	Test Number:
Lance Waller	10/13/2016	2016-074
Montana-Dakota Scale Service		Kit Number
Route 1, Box 1640		No Kit #
Fairview, MT 59221		

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: 10/11/2016
 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
21.21	22.56	670.81	36.54	37.32

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 ± (g)	F k factor
50 lb	14	-11.16	-0.36	0.28	2.3	2.13

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 1 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken comparison each having stated uncertainties. This information is on file and available upon request.
 Procedure Used: SOP-7

Traceability Statement:
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 The expanded uncertainty presented in this report is consistent with the *VIM Guide to Expression of Uncertainty in Measurement* 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*

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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:
Lance Waller	10/11/2016	2016-073
Montana-Dakota Scale Service		Kit Number
Route 1, Box 1640		No Kit #
Fairview, MT 59221		

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: 10/11/2016
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
22.98	24.23	668.53	40.1	42.73

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	1	-10.44	0.02	0.28	1.1	2.13
25 lb	2	-8.29	-0.06	0.28	1.1	2.13
25 lb	3	-10.20	-0.04	0.28	1.1	2.13
25 lb	4	-10.31	-0.03	0.28	1.1	2.13

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 1 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken comparison each having stated uncertainties. This information is on file and available upon request.

Procedure Used: SOP-7

Traceability Statement:

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Uncertainty Statement:

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

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

Company Name & Address: Lance Waller Montana-Dakota Scale Service Route 1, Box 1640 Fairview, MT 59221	Date of Test: 10/14/2016	Test Number: 2016-076
	Kit Number 4P3M	

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: 10/12/2016

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
23.65	23.84	668.53	41.02	42.15

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

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
5 lb A	4P3M	0.068	0.068	0.016	0.23	2.13
5 lb B	4P3M	0.032	0.032	0.016	0.23	2.13
5 lb C	4P3M	0.038	0.038	0.016	0.23	2.13
5 lb D	4P3M	0.042	0.042	0.016	0.23	2.13
5 lb E	4P3M	0.059	0.059	0.016	0.23	2.13
1 lb A	4P3M	0.023	0.023	0.002	0.07	2.13
1 lb B	4P3M	0.022	0.022	0.002	0.07	2.13
1 lb C	4P3M	0.023	0.023	0.002	0.07	2.13
1 lb D	4P3M	0.030	0.030	0.002	0.07	2.13

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 10/12/2016 (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 *NISTIR 6969* issue February 2012, SOP-29. The reported uncertainty is calculated by combining the uncertainty of the standards used, with the uncertainty of the measurement process in a root sum square formula using a coverage factor, for a confidence level of 95.45%.

State Metrologist Dave Fraser

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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:
Lance Waller	10/14/2016	2016-076
Montana-Dakota Scale Service		Kit Number
Route 1, Box 1640		4P3M
Fairview, MT 59221		

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: 10/12/2016
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
23.65	23.84	668.53	41.02	42.15

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 E	4P3M	0.016	0.016	0.0021	0.07	2.13
8 oz	4P3M	0.010	0.010	0.0021	0.045	2.13
4 oz	4P3M	0.006	0.006	0.00074	0.023	2.28
2 oz	4P3M	0.003	0.003	0.00074	0.011	2.28
1 oz	4P3M	0.002	0.002	0.00074	0.0054	2.28
1/2 oz	4P3M	0.001 1	0.001 1	0.000 3	0.003	2.28
1/4 oz	4P3M	0.000 6	0.000 6	0.000 3	0.002	2.28
1/8 oz	4P3M	0.000 3	0.000 3	0.000 3	0.0013	2.28
1/16 oz	4P3M	0.000 47	0.000 47	0.000 27	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 10/14/2016 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken comparison each having stated uncertainties. This information is on file and available upon request.

Procedure Used: SOP-7

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Company Name & Address:	Date of Test:	Test Number:
Lance Waller Montana-Dakota Scale Service Route 1, Box 1640 Fairview, MT 59221	10/14/2016	2016-076
	Kit Number	
	4P3M	

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: 10/12/2016

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
20.34	21.77	668.53	42.10	42.60

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

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
1/32 oz	4P3M	0.000 46	0.000 46	0.000 04	0.00087	2.28
1/32 oz *	4P3M	-0.000 01	-0.000 01	0.000 04	0.00087	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 10/14/2016 (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 (NIST 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 *NISTIR 6969 Guide to Expression of Uncertainty in Measurement* 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 calculator, for a confidence level of 95.45%.

State Metrologist: Dave Fraser

David Fraser

Email: dfraser@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:
Lance Waller	10/14/2016	2016-077
Montana-Dakota Scale Service		Kit Number
Route 1, Box 1640		10
Fairview, MT 59221		

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: 10/12/2016

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
21.23	22.54	670.56	41.94	41.98

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

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ± (g)	NIST 105-1 Class ± (g)	F k factor
1 kg	10	0.024	0.024	0.011	0.1	2.13
500 g	10	0.0332	0.0332	0.0078	0.07	2.13
200 g	10	0.0104	0.0104	0.0048	0.04	2.13
200 g*	10	0.0062	0.0062	0.0048	0.04	2.13
100 g	10	0.00466	0.00466	0.00074	0.02	2.13
50 g	10	0.00311	0.00311	0.00073	0.01	2.13
20 g	10	0.00076	0.00076	0.00014	0.004	2.13
20 g *	10	0.00013	0.00013	0.00014	0.004	2.13
10 g	1	0.00053	0.00053	0.00014	0.002	2.13

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 1 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken 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 (NIST 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 the National Institute of Standards and Technology.

Uncertainty Statement:

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

State Metrologist Dave Fraser

David Fraser

Email: dafrazer@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:
 Lance Waller 10/14/2016 2016-077
 Montana-Dakota Scale Service Kit Number
 Route 1, Box 1640 10
 Fairview, MT 59221

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: 10/12/2016

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
21.23	22.54	670.56	41.94	41.98

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

Nominal	Serial No.	As Found ±(g)	As Left ±(g)	Uncertainty ± (g)	NIST 105-1 Class F ± (g)	k factor
5 g	10	-0.00013	-0.00013	0.00027	0.0015	2.13
2 g	10	0.00043	0.00043	0.00027	0.0011	2.13
2 g*	10	0.00012	0.00012	0.00027	0.0011	2.13
1 g	10	0.000412	0.000412	0.000044	0.0009	2.13

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 1 (Reports on File) and are traceable to the SI. The test number listed above is traceable to National Standards through an unbroken 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 (NIST) 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 - the National Institute of Standards and Technology.

Uncertainty Statement:

The expanded uncertainty presented in this report is consistent with the *NIST Guide to Expression of Uncertainty in Measurement* 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 coverage factor, for a confidence level of 95.45%.

State Metrologist Dave Fraser

David Fraser

Email: dafraser@mt.gov

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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