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	Email Address	Application Date	
K-Scale LLC	info@k-scale.com		
Mailing Address	**City**	**State**	**Zip Code**
1701 W Madison St	Sioux Falls	SD	57104
Telephone Number	**Cell Phone Number**	**Fax Number**	
605-334-8003	605-431-4790	605.336.9500	

Select below all device types your company will certify:

Scales (include maximum capacity, if applicable)	**Liquid** (include maximum flow rate, if applicable)
☐ 1. Rail	☐ 1. Retail Fuel (less than 20 gal. per minute)
☑ 2. Truck	☐ 2. High Flow Retail Fuel (20 gal. per minute or greater)
☑ 3. Livestock	☐ 3. Vehicle Tank: Max. Flow Rate: _____
☑ 4. Hopper: Max. Capacity: _____	☐ 4. Stationary Bulk (fuel or oil): Max. Flow Rate: _____
☑ 5. Belt	☐ 5. LPG
☑ 6. Over 30 lbs.: Max. Capacity: _____	☐ 6. Stationary LPG
☑ 7. 30 lbs. or less	☐ 7. Fertilizer: Max. Flow Rate: _____
☐ 8. Class II **(indicate on your calibration report which weight kit is Class II certified)**	☐ 8. Chemical
☐ 9. Other: Please List:	☐ 9. Anhydrous
	☐ 10. Loading Rack
	☐ 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*
1622	Kevin Baumgartner	2, 3, 4, 6, 7,

Continued on Page 2

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

Additional Application Items (initial where appropriate):

Standardized Test Report	____ Copy enclosed X No change in report filed previously
Tested and Approved Sticker	____ Copy enclosed X No change in sticker filed previously
Photocopy of Crimped Lead Wire Seal	____ Copy enclosed X 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 Suzanne Baumgartner, 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.

S Baumgartner
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

Home | Business Records Search

K-SCALE, L.L.C.

Corporation Details

System ID: 20971400
Type: FOREIGN LIMITED LIABILITY COMPANY
Status: Active & Good Standing
Original File Date: 04/22/2005
State of Origin: South Dakota

Phone: (605) 334-8003

Effective Date: 04/22/2005

Nature of Business

SALES & SERVICE OF ALL TYPES OF SCALES

Principal Office

1701 W MADISON SIOUX FALLS, SD 57104-5723

Registered Agent

SEARCH COMPANY OF NORTH DAKOTA LLC
1501 N 12TH ST STE 1
BISMARCK, ND 58501-2713
Established Date: Nov 03, 2008

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.

2013 2014 (generates a forms-fillable pdf in a new pop-up window)

Return to Search Results

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: MP3338
DATE OF REPORT: 10/30/2014
DATE RECEIVED: 10/27/2014
DATE OF TEST: 10/29/2014

Submitted By: K-Scale
Contact: Kevin Kennedy
Mailing Address: 1701 W Madison
City, State, Zip: Sioux Falls, SD 57104
Phone: 605-334-8003
S/A Number: 90

Standards Submitted:

1 -WEIGHT CARTS
28 -1000 LB TEST WEIGHTS
48 -50 LB TEST WEIGHTS
40 -25 LB TEST WEIGHTS
3 -METRIC WEIGHT KITS
3 -AVOIRDUPOIS WEIGHT KITS
1 Loose Weights

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

10/30/14
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:	K-Scale	**Report Number:**	MP3338
Mailing Address:	1701 W Madison	**Date Received:**	10/27/14
City, State, Zip:	Sioux Falls, SD 57104	**Date tested:**	10/29/14
Manufacturer:	Dunbar WM-20	**Condition of Cart:**	GOOD
Serial Number:	11111885	**Temperature (c):**	21.5
Test Method Used:	SOP 33/ Double Sub.	**Humidity:**	42.8%
Nominal (lb):	3000	**Pressure (mm/Hg):**	717.2
Tolerance (lb):	1.00		

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)
-0.91	0.09	0.13

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 by the customer to 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

10/30/2014
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:	K-Scale	**Report Number:**	MP3338
Mailing Address:	1701 W Madison	**Date Received:**	10/27/14
City, State, Zip:	Sioux Falls, SD 57104	**Date tested:**	10/28/14
Artifacts Submitted	1000 lb test weights	**Condition of Weights:**	GOOD
Manufacturer:	Rice Lake/ Other	**Temperature (c):**	22.1
Test Method Used:	SOP 8/ MODIFIED SUB	**Humidity:**	44.2
Equipment Used:	Russell Balance/ Vaisala PTU301	**Pressure (mm/Hg):**	716.5

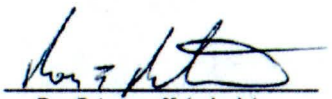
Treatment of artifacts prior to testing: Thermal equalibrium time/conditions were obtained by placing the artifacts in the lab overnight.

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 As Found		Correction As Left		Tolerance	Uncertainty	K
1000 lb	1	0.033 lb	15 g	0.033 lb	15 g	45 g	7 g	2.04
1000 lb	2	-0.025 lb	-11 g	-0.025 lb	-11 g	45 g	7 g	2.04
1000 lb	3	-0.043 lb	-20 g	-0.043 lb	-20 g	45 g	7 g	2.04
1000 lb	4	-0.032 lb	-14 g	-0.032 lb	-14 g	45 g	7 g	2.04
1000 lb	5	-0.018 lb	-8 g	-0.018 lb	-8 g	45 g	7 g	2.04
1000 lb	6	-0.002 lb	-1 g	-0.002 lb	-1 g	45 g	7 g	2.04
1000 lb	7	-0.025 lb	-11 g	-0.025 lb	-11 g	45 g	7 g	2.04
1000 lb	8	0.204 lb	93 g	0.000 lb	0 g	45 g	7 g	2.04
1000 lb	9	0.120 lb	54 g	0.000 lb	0 g	45 g	7 g	2.04
1000 lb	10	-0.019 lb	-9 g	-0.019 lb	-9 g	45 g	7 g	2.04
1000 lb	11	0.019 lb	9 g	0.019 lb	9 g	45 g	7 g	2.04
1000 lb	12	0.053 lb	24 g	0.053 lb	24 g	45 g	7 g	2.04
1000 lb	13	0.021 lb	10 g	0.021 lb	10 g	45 g	7 g	2.04
1000 lb	14	0.008 lb	4 g	0.008 lb	4 g	45 g	7 g	2.04
1000 lb	15	-0.046 lb	-21 g	-0.046 lb	-21 g	45 g	7 g	2.04
1000 lb	16	-0.027 lb	-12 g	-0.027 lb	-12 g	45 g	7 g	2.04
1000 lb	17	-0.072 lb	-33 g	-0.001 lb	0 g	45 g	7 g	2.04
1000 lb	18	-0.021 lb	-9 g	-0.021 lb	-9 g	45 g	7 g	2.04
1000 lb	19	-0.010 lb	-5 g	-0.010 lb	-5 g	45 g	7 g	2.04



Ron Peterson, Metrologist

10/30/2014
Date of Report

SOUTH DAKOTA WEIGHTS AND MEASURES / METROLOGY LAB

Lab: 1500 N. Garfield-E. Truck Bypass Phone: 605-773-3170
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Submitted by:	K-Scale	**Report Number:**	MP3338
Mailing Address:	1701 W Madison	**Date Received:**	10/27/14
City, State, Zip:	Sioux Falls, SD 57104	**Date tested:**	10/28/14
Artifacts Submitted	1000 lb test weights	**Condition of Weights:**	GOOD
Manufacturer:	Rice Lake/ Other	**Temperature (c):**	22.1
Test Method Used:	SOP 8/ MODIFIED SUB	**Humidity:**	44.2
Equipment Used:	Russell Balance/ Vaisala PTU301	**Pressure (mm/Hg):**	716.5

Treatment of artifacts prior to testing: Thermal equalibrium 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 As Found		Correction As Left		Tolerance	Uncertainty	K
1000 lb	20	-0.028 lb	-13 g	-0.028 lb	-13 g	45 g	7 g	2.04
1000 lb	21	0.095 lb	43 g	0.000 lb	0 g	45 g	7 g	2.04
1000 lb	23	-0.031 lb	-14 g	-0.031 lb	-14 g	45 g	7 g	2.04
1000 lb	24	0.085 lb	38 g	0.002 lb	1 g	45 g	7 g	2.04
1000 lb	25	0.014 lb	6 g	0.014 lb	6 g	45 g	7 g	2.04
1000 lb	26	-0.036 lb	-16 g	-0.036 lb	-16 g	45 g	7 g	2.04
1000 lb	122	0.065 lb	29 g	0.065 lb	29 g	45 g	7 g	2.04
1000 lb	5EJU	0.054 lb	25 g	0.054 lb	25 g	45 g	7 g	2.04
1000 lb	R17	-0.008 lb	-4 g	-0.008 lb	-4 g	45 g	7 g	2.04

Ron Peterson, Metrologist

10/30/2014
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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:	K-Scale	**Report Number:**	MP3338
Mailing Address:	1701 W Madison	**Date Received:**	10/27/14
City, State, Zip:	Sioux Falls, SD 57104	**Date tested:**	10/29/14
Artifacts Submitted	50 lb TW	**Condition of Weights:**	GOOD
Manufacturer:	Various	**Temperature (c):**	21.6
Test Method Used:	SOP 8/ MODIFIED SUB	**Humidity:**	45.0%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	**Pressure (mm/Hg):**	713.7

Treatment of artifacts prior to testing: Thermal equalibrium 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 50 lb and/or 25 lb Working Standards.

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Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
50 lb	1	-2069 mg	1 mg	2300 mg	304 mg	2.23
50 lb	1	-3109 mg	31 mg	2300 mg	304 mg	2.23
50 lb	2	-1024 mg	-1024 mg	2300 mg	304 mg	2.23
50 lb	3	-924 mg	-924 mg	2300 mg	304 mg	2.23
50 lb	4	-2579 mg	116 mg	2300 mg	304 mg	2.23
50 lb	5	-2614 mg	21 mg	2300 mg	304 mg	2.23
50 lb	6	-3064 mg	36 mg	2300 mg	304 mg	2.23
50 lb	7	-1424 mg	-1424 mg	2300 mg	304 mg	2.23
50 lb	10	-614 mg	-614 mg	2300 mg	304 mg	2.23
50 lb	11	-1799 mg	26 mg	2300 mg	304 mg	2.23
50 lb	13	56 mg	56 mg	2300 mg	304 mg	2.23
50 lb	14	-2079 mg	191 mg	2300 mg	304 mg	2.23
50 lb	15	-1459 mg	-1459 mg	2300 mg	304 mg	2.23
50 lb	17	671 mg	671 mg	2300 mg	304 mg	2.23
50 lb	18	-1769 mg	36 mg	2300 mg	304 mg	2.23
50 lb	20	-1154 mg	-1154 mg	2300 mg	304 mg	2.23
50 lb	20	-344 mg	-344 mg	2300 mg	304 mg	2.23
50 lb	21	-639 mg	-639 mg	2300 mg	304 mg	2.23
50 lb	23	-919 mg	-919 mg	2300 mg	304 mg	2.23
50 lb	24	-2979 mg	81 mg	2300 mg	304 mg	2.23
50 lb	25	-3424 mg	156 mg	2300 mg	304 mg	2.23
50 lb	26	-1504 mg	-1504 mg	2300 mg	304 mg	2.23
50 lb	27	551 mg	551 mg	2300 mg	304 mg	2.23
50 lb	28	-1014 mg	-1014 mg	2300 mg	304 mg	2.23
50 lb	29	-2684 mg	-4 mg	2300 mg	304 mg	2.23
50 lb	31	-99 mg	-99 mg	2300 mg	304 mg	2.23

Ron Peterson, Metrologist

10/30/2014
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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:	K-Scale	**Report Number:**	MP3338
Mailing Address:	1701 W Madison	**Date Received:**	10/27/14
City, State, Zip:	Sioux Falls, SD 57104	**Date tested:**	10/29/14
Artifacts Submitted	50 lb TW	**Condition of Weights:**	GOOD
Manufacturer:	Various	**Temperature (c):**	21.6
Test Method Used:	SOP 8/ MODIFIED SUB	**Humidity:**	45.0%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	**Pressure (mm/Hg):**	713.7

Treatment of artifacts prior to testing: Thermal equalibrium 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 50 lb and/or 25 lb Working Standards.

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Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
50 lb	32	-744 mg	-744 mg	2300 mg	304 mg	2.23
50 lb	33	-859 mg	-859 mg	2300 mg	304 mg	2.23
50 lb	34	-1724 mg	26 mg	2300 mg	304 mg	2.23
50 lb	36	2866 mg	151 mg	2300 mg	304 mg	2.23
50 lb	38	-2654 mg	81 mg	2300 mg	304 mg	2.23
50 lb	39	391 mg	391 mg	2300 mg	304 mg	2.23
50 lb	40	-1549 mg	6 mg	2300 mg	304 mg	2.23
50 lb	41	-1049 mg	-1049 mg	2300 mg	304 mg	2.23
50 lb	45	-2579 mg	131 mg	2300 mg	304 mg	2.23
50 lb	47	-2509 mg	86 mg	2300 mg	304 mg	2.23
50 lb	48	-474 mg	-474 mg	2300 mg	304 mg	2.23
50 lb	50	-4554 mg	6 mg	2300 mg	304 mg	2.23
50 lb	51	-1159 mg	-1159 mg	2300 mg	304 mg	2.23
50 lb	53	-1049 mg	-1049 mg	2300 mg	304 mg	2.23
50 lb	91	-2969 mg	41 mg	2300 mg	304 mg	2.23
50 lb	96	-1329 mg	-1329 mg	2300 mg	304 mg	2.23
50 lb	97	-1659 mg	96 mg	2300 mg	304 mg	2.23
50 lb	98	206 mg	206 mg	2300 mg	304 mg	2.23
50 lb	99	-974 mg	-974 mg	2300 mg	304 mg	2.23
50 lb	321	-1139 mg	-1139 mg	2300 mg	304 mg	2.23
50 lb	333	136 mg	136 mg	2300 mg	304 mg	2.23
50 lb	KS-C44	-514 mg	-514 mg	2300 mg	304 mg	2.23

Ron Peterson, Metrologist

10/30/2014
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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:	K-Scale	**Report Number:**	MP3338
Mailing Address:	1701 W Madison	**Date Received:**	10/27/14
City, State, Zip:	Sioux Falls, SD 57104	**Date tested:**	10/29/14
Artifacts Submitted	25 lb TW	**Condition of Weights:**	GOOD
Manufacturer:	Various	**Temperature (c):**	21.9
Test Method Used:	SOP 8/ MODIFIED SUB	**Humidity:**	42.4%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	**Pressure (mm/Hg):**	717.7

Treatment of artifacts prior to testing: Thermal equalibrium 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 50 lb and/or 25 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 numbered, may not be reproduced, except in full, without approval of the laboratory

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
25 LB	2	672 mg	672 mg	1100 mg	148 mg	2.28
25 LB	56	267 mg	267 mg	1100 mg	148 mg	2.28
25 LB	1P	662 mg	662 mg	1100 mg	148 mg	2.28
25 LB	1P12	17 mg	17 mg	1100 mg	148 mg	2.28
25 LB	1PJ	212 mg	212 mg	1100 mg	148 mg	2.28
25 LB	1PJ1	222 mg	222 mg	1100 mg	148 mg	2.28
25 LB	1PJ6	112 mg	112 mg	1100 mg	148 mg	2.28
25 LB	1PJD	1197 mg	-448 mg	1100 mg	148 mg	2.28
25 LB	1PJE	-803 mg	2 mg	1100 mg	148 mg	2.28
25 LB	1PJF	127 mg	127 mg	1100 mg	148 mg	2.28
25 LB	1PJG	882 mg	-273 mg	1100 mg	148 mg	2.28
25 LB	1PJH	712 mg	712 mg	1100 mg	148 mg	2.28
25 LB	1PJM	-88 mg	-88 mg	1100 mg	148 mg	2.28
25 LB	1PJN	357 mg	357 mg	1100 mg	148 mg	2.28
25 LB	1PJQ	-383 mg	-383 mg	1100 mg	148 mg	2.28
25 LB	1PJS	347 mg	347 mg	1100 mg	148 mg	2.28
25 LB	1PJT	-18 mg	-18 mg	1100 mg	148 mg	2.28
25 LB	1PJV	1212 mg	127 mg	1100 mg	148 mg	2.28
25 LB	1PJX	502 mg	502 mg	1100 mg	148 mg	2.28
25 LB	1PK1	452 mg	452 mg	1100 mg	148 mg	2.28
25 LB	1PK2	2007 mg	32 mg	1100 mg	148 mg	2.28
25 LB	1PK4	807 mg	-78 mg	1100 mg	148 mg	2.28
25 LB	1PK5	692 mg	692 mg	1100 mg	148 mg	2.28
25 LB	1PK6	1987 mg	-103 mg	1100 mg	148 mg	2.28
25 LB	1PK7	1052 mg	-153 mg	1100 mg	148 mg	2.28
25 LB	1PK8	-253 mg	-253 mg	1100 mg	148 mg	2.28

Ron Peterson, Metrologist

10/30/2014
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SOUTH DAKOTA WEIGHTS AND MEASURES / METROLOGY LAB

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Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre, SD 57501

Submitted by:	K-Scale	**Report Number:**	MP3338
Mailing Address:	1701 W Madison	**Date Received:**	10/27/14
City, State, Zip:	Sioux Falls, SD 57104	**Date tested:**	10/29/14
Artifacts Submitted	25 lb TW	**Condition of Weights:**	GOOD
Manufacturer:	Various	**Temperature (c):**	21.9
Test Method Used:	SOP 8/ MODIFIED SUB	**Humidity:**	42.4%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	**Pressure (mm/Hg):**	717.7

Treatment of artifacts prior to testing: Thermal equalibrium 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 50 lb and/or 25 lb Working Standards.

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Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
25 LB	1PK9	-8 mg	-8 mg	1100 mg	148 mg	2.28
25 LB	1PK9	122 mg	122 mg	1100 mg	148 mg	2.28
25 LB	1PKD	297 mg	297 mg	1100 mg	148 mg	2.28
25 LB	1PKE	-338 mg	-338 mg	1100 mg	148 mg	2.28
25 LB	1PKF	637 mg	637 mg	1100 mg	148 mg	2.28
25 LB	1PKG	-78 mg	-78 mg	1100 mg	148 mg	2.28
25 LB	1PKH	-278 mg	-278 mg	1100 mg	148 mg	2.28
25 LB	1PKJ	-1073 mg	437 mg	1100 mg	148 mg	2.28
25 LB	1PKK	-108 mg	-108 mg	1100 mg	148 mg	2.28
25 LB	1PKL	472 mg	472 mg	1100 mg	148 mg	2.28
25 LB	1PKL	552 mg	552 mg	1100 mg	148 mg	2.28
25 LB	1PKM	-1023 mg	257 mg	1100 mg	148 mg	2.28
25 LB	1PKX	-648 mg	-648 mg	1100 mg	148 mg	2.28
25 LB	KSD2	1377 mg	-88 mg	1100 mg	148 mg	2.28
10 LB	58	1263 mg	-4 mg	450 mg	55 mg	2.10

Ron Peterson, Metrologist

10/30/2014
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:	K-Scale	**Report Number:**	MP3338
Mailing Address:	1701 W Madison	**Date Received:**	10/27/14
City, State, Zip:	Sioux Falls, SD 57104	**Date tested:**	10/29/14
Artifacts Submitted	081500B	**Condition of Weights:**	GOOD
Manufacturer:	Rice Lake	**Temperature (c):**	21.4
Test Method Used:	SOP 8/ MODIFIED SUB	**Humidity:**	44
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	**Pressure (mm/Hg):**	713.6

Treatment of artifacts prior to testing: Thermal equalibrium 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 Working Standards.
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.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
10 lb	KS	-135 mg	-135 mg	450 mg	55 mg	2.10
10 lb	KS1	-99 mg	-99 mg	450 mg	55 mg	2.10
5 lb		27 mg	27 mg	230 mg	28 mg	2.08
1 lb	1	-4.8 mg	-4.8 mg	70 mg	8.5 mg	2.08
1 lb	2	1.2 mg	1.2 mg	70 mg	8.5 mg	2.08
1 lb	3	7.2 mg	7.2 mg	70 mg	8.5 mg	2.08
1 lb	4	-18.8 mg	-18.8 mg	70 mg	8.5 mg	2.08
1 lb	5	17.2 mg	17.2 mg	70 mg	8.5 mg	2.08
4 oz	KS1	7.8 mg	7.8 mg	23 mg	2.8 mg	2.11
4 oz	KS2	10.9 mg	10.9 mg	23 mg	2.8 mg	2.11
4 oz	KS3	0.5 mg	0.5 mg	23 mg	2.8 mg	2.11
1 oz	1	1.35 mg	1.35 mg	5.4 mg	0.65 mg	2.08
1 oz	3	1.97 mg	1.97 mg	5.4 mg	0.65 mg	2.08
1/2 oz	.	0.21 mg	0.21 mg	2.8 mg	0.34 mg	2.09
1/4 oz	.	0.03 mg	0.03 mg	1.7 mg	0.21 mg	2.08

Ron Peterson, Metrologist

10/30/2014
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Submitted by:	K-Scale	**Report Number:**	MP3338
Mailing Address:	1701 W Madison	**Date Received:**	10/27/14
City, State, Zip:	Sioux Falls, SD 57104	**Date tested:**	10/29/14
Artifacts Submitted	081500C	**Condition of Weights:**	GOOD
Manufacturer:	Rice Lake	**Temperature (c):**	21.4
Test Method Used:	SOP 8/ MODIFIED SUB	**Humidity:**	44
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	**Pressure (mm/Hg):**	713.6

Treatment of artifacts prior to testing: Thermal equalibrium 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 Working Standards.
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Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	9	29 mg	29 mg	230 mg	28 mg	2.08
2 lb	5	11 mg	11 mg	91 mg	11 mg	2.10
2 lb	6	29 mg	29 mg	91 mg	11 mg	2.10
1 lb	4	11 mg	11.2 mg	70 mg	8.5 mg	2.08
8 oz	3	5 mg	4.8 mg	45 mg	5.5 mg	2.08
0.2 lb	1	9 mg	8.5 mg	18 mg	2.2 mg	2.10
0.2 lb	2	8 mg	8.3 mg	18 mg	2.2 mg	2.10
0.1 lb		8.5 mg	8.5 mg	9.1 mg	1.1 mg	2.10
0.05 lb		2.34 mg	2.34 mg	4.5 mg	0.55 mg	2.10
0.02 lb		1.50 mg	1.50 mg	1.8 mg	0.23 mg	2.10
0.02 lb		0.93 mg	0.93 mg	1.8 mg	0.23 mg	2.10
0.01 lb		1.47 mg	1.47 mg	1.5 mg	0.19 mg	2.10
0.005 lb		0.74 mg	0.74 mg	1.2 mg	0.16 mg	2.10
0.002 lb		0.06 mg	0.06 mg	0.87 mg	0.11 mg	2.11
0.002 lb		0.63 mg	0.63 mg	0.87 mg	0.11 mg	2.11
0.001 lb		0.00 mg	0.00 mg	0.70 mg	0.10 mg	2.10

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Submitted by:	K-Scale	**Report Number:**	MP3338
Mailing Address:	1701 W Madison	**Date Received:**	10/27/14
City, State, Zip:	Sioux Falls, SD 57104	**Date tested:**	10/29/14
Artifacts Submitted	081910A	**Condition of Weights:**	GOOD
Manufacturer:	Rice Lake	**Temperature (c):**	21.7
Test Method Used:	SOP 8/ MODIFIED SUB	**Humidity:**	44
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	**Pressure (mm/Hg):**	713.6

Treatment of artifacts prior to testing: Thermal equalibrium 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.
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Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	*k*
10 lb		124 mg	124 mg	450 mg	55 mg	2.10
10 lb		132 mg	132 mg	450 mg	55 mg	2.10
5 lb		81 mg	81 mg	230 mg	28 mg	2.08
2 lb		32 mg	32 mg	91 mg	11 mg	2.10
2 lb		27 mg	27 mg	91 mg	11 mg	2.10
1 lb		9.2 mg	9.2 mg	70 mg	8.5 mg	2.08
8 oz		10.8 mg	10.8 mg	45 mg	5.5 mg	2.08
0.2 lb		0.5 mg	0.5 mg	18 mg	2.2 mg	2.10
0.2 lb		3.2 mg	3.2 mg	18 mg	2.2 mg	2.10
0.1 lb		2.9 mg	2.9 mg	9.1 mg	1.1 mg	2.10
0.05 lb		1.39 mg	1.39 mg	4.5 mg	0.55 mg	2.10
0.02 lb		0.49 mg	0.49 mg	1.8 mg	0.23 mg	2.10
0.02 lb		0.49 mg	0.49 mg	1.8 mg	0.23 mg	2.10
0.01 lb		0.64 mg	0.64 mg	1.5 mg	0.19 mg	2.10
0.005 lb		0.47 mg	0.47 mg	1.2 mg	0.16 mg	2.10
0.002 lb		0.20 mg	0.20 mg	0.87 mg	0.11 mg	2.11
0.002 lb		0.27 mg	0.27 mg	0.87 mg	0.11 mg	2.11
0.001 lb		0.36 mg	0.36 mg	0.70 mg	0.10 mg	2.10

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Submitted by:	K-Scale	**Report Number:**	MP3338
Mailing Address:	1701 W Madison	**Date Received:**	10/27/14
City, State, Zip:	Sioux Falls, SD 57104	**Date tested:**	10/29/14
Artifacts Submitted	O1AY	**Condition of Weights:**	GOOD
Manufacturer:	Rice Lake	**Temperature (c):**	21.7
Test Method Used:	SOP 8/ MODIFIED SUB	**Humidity:**	44%
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	**Pressure (mm/Hg):**	713.6

Treatment of artifacts prior to testing: Thermal equalibrium 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.
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Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
2 kg		94 mg	94 mg	200 mg	24 mg	2.11
1 kg		43 mg	43 mg	100 mg	12 mg	2.10
500 g		34.5 mg	34.5 mg	70 mg	8.6 mg	2.10
200 g		16.5 mg	16.5 mg	40 mg	5.0 mg	2.11
200 g		15.6 mg	15.6 mg	40 mg	5.0 mg	2.11
100 g		7.3 mg	7.3 mg	20 mg	2.4 mg	2.10
50 g		3.2 mg	3.2 mg	10 mg	1.2 mg	2.10
20 g		1.12 mg	1.12 mg	4.0 mg	0.49 mg	2.09
20 g		1.01 mg	1.01 mg	4.0 mg	0.49 mg	2.09
5 g		0.42 mg	0.42 mg	1.5 mg	0.39 mg	2.10
2 g		0.32 mg	0.32 mg	1.1 mg	0.14 mg	2.10
2 g		0.19 mg	0.19 mg	1.1 mg	0.14 mg	2.10
1 g		-0.52 mg	-0.52 mg	0.90 mg	0.12 mg	2.10

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Mailing Address:	1701 W Madison	**Date Received:**	10/27/14
City, State, Zip:	Sioux Falls, SD 57104	**Date tested:**	10/29/14
Artifacts Submitted	20BD	**Condition of Weights:**	GOOD
Manufacturer:	Rice Lake	**Temperature (c):**	21.7
Test Method Used:	SOP 8/ MODIFIED SUB	**Humidity:**	44%
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	**Pressure (mm/Hg):**	713.6

Treatment of artifacts prior to testing: Thermal equallibrium time/conditions were obtained by placing the artifacts in the lab overnight.
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Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	*k*
5 kg		130 mg	130 mg	500 mg	62 mg	2.14
2 kg		82 mg	82 mg	200 mg	24 mg	2.11
2 kg		89 mg	89 mg	200 mg	24 mg	2.11
1 kg		52 mg	52 mg	100 mg	12 mg	2.10
500 g		26.5 mg	26.5 mg	70 mg	8.6 mg	2.10
200 g		17.5 mg	17.5 mg	40 mg	5.0 mg	2.11
200 g		16.7 mg	16.7 mg	40 mg	5.0 mg	2.11
100 g		9.0 mg	9.0 mg	20 mg	2.4 mg	2.10
50 g		2.7 mg	2.7 mg	10 mg	1.2 mg	2.10
20 g		0.97 mg	0.97 mg	4 mg	0.49 mg	2.09
20 g		0.70 mg	0.70 mg	4 mg	0.49 mg	2.09
10 g		0.67 mg	0.67 mg	2 mg	0.25 mg	2.09
5 g		0.16 mg	0.16 mg	1.5 mg	0.39 mg	2.10
2 g		0.47 mg	0.47 mg	1.1 mg	0.14 mg	2.10
2 g		0.37 mg	0.37 mg	1.1 mg	0.14 mg	2.10

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Mailing Address:	1701 W Madison	**Date Received:**	10/27/14
City, State, Zip:	Sioux Falls, SD 57104	**Date tested:**	10/29/14
Artifacts Submitted	080602B	**Condition of Weights:**	GOOD
Manufacturer:	Rice Lake	**Temperature (c):**	20.3
Test Method Used:	SOP 8/ MODIFIED SUB	**Humidity:**	48%
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	**Pressure (mm/Hg):**	713.7

Treatment of artifacts prior to testing: Thermal equalibrium time/conditions were obtained by placing the artifacts in the lab overnight.
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Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
2 kg		86 mg	86 mg	200 mg	24 mg	2.11
2 kg		87 mg	87 mg	200 mg	24 mg	2.11
2 kg		77 mg	77 mg	200 mg	24 mg	2.11
2 kg		86 mg	86 mg	200 mg	24 mg	2.11
2 kg		70 mg	70 mg	200 mg	24 mg	2.11
1 kg		40 mg	40 mg	100 mg	12 mg	2.10
500 g		32.5 mg	32.5 mg	70 mg	8.6 mg	2.10
500 g		29.5 mg	29.5 mg	70 mg	8.6 mg	2.10
500 g		14.5 mg	14.5 mg	70 mg	8.6 mg	2.10
500 g		28.5 mg	28.5 mg	70 mg	8.6 mg	2.10
500 g		29.5 mg	29.5 mg	70 mg	8.6 mg	2.10
200 g		12.6 mg	12.6 mg	40 mg	5.0 mg	2.11
200 g		10.6 mg	10.6 mg	40 mg	5.0 mg	2.11
100 g		1.9 mg	1.9 mg	20 mg	2.4 mg	2.10
50 g		4.1 mg	4.1 mg	10 mg	1.2 mg	2.10
20 g		1.19 mg	1.19 mg	4 mg	0.49 mg	2.09
20 g		1.82 mg	1.82 mg	4 mg	0.49 mg	2.09
10 g		0.89 mg	0.89 mg	2 mg	0.25 mg	2.09
5 g		0.89 mg	0.89 mg	1.5 mg	0.39 mg	2.10
2 g		0.51 mg	0.51 mg	1.1 mg	0.14 mg	2.10
2 g		0.03 mg	0.03 mg	1.1 mg	0.14 mg	2.10
1 g		-0.44 mg	-0.44 mg	0.9 mg	0.12 mg	2.10

End of Report

Ron Peterson, Metrologist

10/30/2014
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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.

2014

Scope

Mass Echelon III

30 kg to 1 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

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

Effective Dates: 2014-01-01 to 2014-12-31

(Rev.: March 2013)