



**APPLICATION FOR REGISTRATION AS A REGISTERED SERVICE COMPANY**

Public Service Commission  
SFN 51277 (2/2014)



**TYPE OR PRINT - AN INCOMPLETE OR ILLEGIBLE APPLICATION WILL BE REJECTED**

<b>Name of Company</b> Scale Center, Inc	<b>Email Address</b> jchristian@thescalecenter.com	<b>Application Date</b>	
<b>Mailing Address</b> 2900 W. Russell St.	<b>City</b> Sioux Falls	<b>State</b> SD	<b>Zip Code</b> 57107
<b>Telephone Number</b> 605 332-8881	<b>Cell Phone Number</b> 605 838-7107	<b>Fax Number</b> 605 332 8886	

Select below all device types your company will certify:

<b>Scales (include maximum capacity, if applicable)</b>	<b>Liquid (include maximum flow rate, if applicable)</b>
<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>32,000lb.</u> <input type="checkbox"/> 5. Belt <input checked="" type="checkbox"/> 6. Over 30 lbs.: Max. Capacity: <u>30,000lb.</u> <input checked="" type="checkbox"/> 7. 30 lbs. or less <input type="checkbox"/> 8. Class II (indicate on your calibration report which weight kit is Class II certified) <input type="checkbox"/> 9. Other: Please List:	<input type="checkbox"/> 1. Retail Fuel (less than 20 gal. per minute) <input type="checkbox"/> 2. High Flow Retail Fuel (20 gal. per minute or greater) <input type="checkbox"/> 3. Vehicle Tank: Max. Flow Rate: _____ <input type="checkbox"/> 4. Stationary Bulk (fuel or oil): Max. Flow Rate: _____ <input type="checkbox"/> 5. LPG <input type="checkbox"/> 6. Stationary LPG <input type="checkbox"/> 7. Fertilizer: Max. Flow Rate: _____ <input type="checkbox"/> 8. Chemical <input type="checkbox"/> 9. Anhydrous <input type="checkbox"/> 10. Loading Rack <input type="checkbox"/> 11. Other: Please List:

List below all persons employed by your company as a North Dakota Registered Service Person and the device types they are registered to certify (attach a separate sheet to list additional employees):

<b>Permit No.</b>	<b>Employee</b>	<b>Device Types Registered to Certify (list using device type numbers from above)</b>
e.g. 1001	e.g. John Doe	e.g. Scales - 2, 3, 6, 8; e.g. Liquid - 1, 2, 6
1725	Ken Hoff	Scales 1, 2, 3, 4, 6, 7

Application for Registration as a Registered Service Company  
Page 2

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


Additional Application Items (initial where appropriate):

Standardized Test Report	<u>JC</u> Copy enclosed _____ No change in report filed previously
Tested and Approved Sticker	<u>JC</u> Copy enclosed _____ No change in sticker filed previously
Photocopy of Crimped Lead Wire Seal	<u>JC</u> Copy enclosed _____ 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 Tim Huber, 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

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# SECRETARY OF STATE NORTH DAKOTA

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## SCALE CENTER, INC.

### Corporation Details

**System ID:** 40930300 **Phone:** (800) 456-1486  
**Type:** FOREIGN BUSINESS CORPORATION  
**Status:** Active & Good Standing  
**Original File Date:** 04/15/2016 **Effective Date:** 04/15/2016  
**State of Origin:** South Dakota

### Nature of Business

SCALE SALES, SERVICE & REPAIR

### Principal Office

2900 W RUSSELL ST SIOUX FALLS, SD 57107-0706

### Registered Agent

**MONTGOMERY GOFF & BULLIS, P.C.**  
4650 38TH AVE S  
PO BOX 9199  
FARGO, ND 58106-9199  
Established Date: Apr 15, 2016

### Generate an Annual Report To File

To Generate a Annual Report form to be filed with the Secretary of State, select the appropriate year of the report you intend to file. This report does not contain details of a report previously filed with the Secretary of State. The annual report years reflected are an indication of the various report forms available in this site and is not an indication that an entity needs to file reports for all years. Missing years indicate that the forms for the missing year have not yet been deployed to the website, or have already been removed, and can be obtained by contacting the Secretary of State.

[2015](#) [2016](#) (generates a forms-fillable pdf in a new pop-up window)

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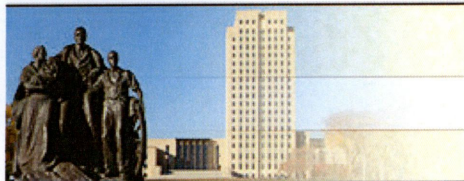
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# SECRETARY OF STATE NORTH DAKOTA

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## SCALE CENTER

### Trade Name

**System ID:** 22204400**Phone:** (800) 456-1486**Status:** Active**Original File Date:** 08/10/2006**Last Renewal Date:** 08/10/2011

### Nature of Business

SCALE PARTS AND PRODUCTS SALES. SCALE REPAIR, SERVICE AND INSTALLATION.

### Owners

**SCALE CENTER, INC.**

2900 W RUSSELL ST

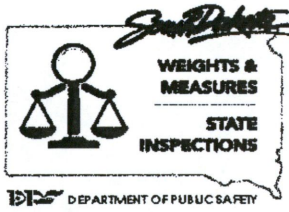
SIOUX FALLS, SD 57107-0706

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We use Secure Sockets Layer (SSL) encryption technology to ensure your information is secure and protected.

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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  
Pierre SD 57501

## REPORT OF CALIBRATION

LAB TEST NUMBER: MP3425  
DATE OF REPORT: 02/17/2016  
DATE RECEIVED: 02/15/2016  
DATE OF TEST: 02/16/2016

**Submitted By:** Scale Center (Sterling)  
**Contact:** Tim Huber  
**Mailing Address:** 2900 West Russell  
**City, State, Zip:** Sioux Falls, SD 57107  
**Phone:** 605-838-7107  
**S/A Number:** 1

**Standards Submitted:**

- 17 - 1000 lb weights
- 1 - 3500 lb weight cart
- 50 - 50 lb weights
- 2 - weight kits
- 3 - 25 lb weights

**Uncertainty Statement:** The combined standard uncertainty includes the standard uncertainty reported for the standard and the standard uncertainty for the measurement process. 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 1995 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.

**Traceability statement:**

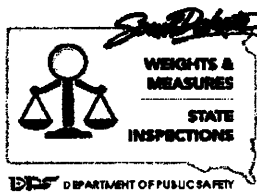
The Standards of the SD Metrology Laboratory used for comparison are traceable to the International System of Units (SI) through the National Institute of Standards and Technology. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability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

This document does not represent or imply endorsement by NIST Office of Weights and Measures 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**



2/17/16  
**Date**



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (Sterling)	<b>Report Number:</b>	MP3425
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/15/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/16/16
<b>Manufacturer:</b>	B-Tek Inc	<b>Condition of Cart:</b>	FAIR
<b>Serial Number:</b>	10.202.139	<b>Temperature (c):</b>	20.0
<b>Test Method Used:</b>	SOP 33 Calibrations of Weight Carts, Sep 2014	<b>Humidity:</b>	40.0%
<b>Nominal (lb):</b>	3500	<b>Pressure (mm/Hg):</b>	711.9
<b>Tolerance (lb):</b>	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)
0.04	0.04	0.20

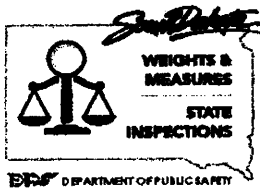
The weight cart was allowed to come to environmental equilibrium in the laboratory prior to calibration. The weight cart was adjusted, as needed and noted above, as close as possible to zero error. All fluid levels must be maintained as close to reference levels as possible during use. Any maintenance, 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.

Test equipment used include recently calibrated weights and a Sartorius PR 6246/33 load cell.

*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. The assigned test number provides documented evidence for measurement traceability.*

  
\_\_\_\_\_  
Ron Peterson, Metrologist

02/17/2016  
Date of Report



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (Sterling)	<b>Report Number:</b>	MP3425
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/15/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/16/16
<b>Artifacts Submitted</b>	17 - 1000 lb test weights	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.3
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	49%
<b>Equipment Used:</b>	Russell Balance/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	713.9

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

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 numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

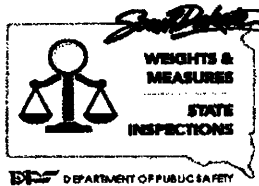
Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
1000 lb	18.09	-0.028 lb	-12.8 g	45 g	6.8 g	2.03
1000 lb	19.09	-0.014 lb	-6.6 g	45 g	6.8 g	2.03
1000 lb	20.09	0.010 lb	4.7 g	45 g	6.8 g	2.03
1000 lb	21.09	-0.017 lb	-7.8 g	45 g	6.8 g	2.03
1000 lb	22.09	-0.026 lb	-11.7 g	45 g	6.8 g	2.03
1000 lb	23.09	0.025 lb	11.5 g	45 g	6.8 g	2.03
1000 lb	24.09	-0.036 lb	-16.2 g	45 g	6.8 g	2.03
1000 lb	25.09	0.013 lb	6.1 g	45 g	6.8 g	2.03
1000 lb	26.09	0.034 lb	15.6 g	45 g	6.8 g	2.03
1000 lb	27.09	0.015 lb	6.6 g	45 g	6.8 g	2.03
1000 lb	28.09	-0.005 lb	-2.4 g	45 g	6.8 g	2.03
1000 lb	29.09	0.006 lb	2.5 g	45 g	6.8 g	2.03
1000 lb	30.09	-0.048 lb	-22.0 g	45 g	6.8 g	2.03
1000 lb	31.09	-0.046 lb	-20.7 g	45 g	6.8 g	2.03
1000 lb	32.09	-0.009 lb	-4.1 g	45 g	6.8 g	2.03
1000 lb	33.09	0.014 lb	6.5 g	45 g	6.8 g	2.03
1000 lb	34.09	0.028 lb	12.9 g	45 g	6.8 g	2.03

  
Ron Peterson, Metrologist

02/17/2016  
Date of Report

Office of Weights and Measures  
118 W. Capitol Ave.  
Pierre, SD 57501

Phone: 605-773-3697  
Fax: 605-773-6631  
www.dps.sd.gov



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<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/15/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/16/16
<b>Artifacts Submitted</b>	50 lb test weights	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.4
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	51.2%
<b>Equipment Used:</b>	Mettler KA-30/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	713.5

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

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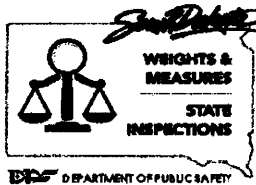
A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
50 lb	SC-50-01	306 mg		2300 mg	284 mg	2.04
50 lb	SC-50-02	1001 mg		2300 mg	284 mg	2.04
50 lb	SC-50-03	831 mg		2300 mg	284 mg	2.04
50 lb	SC-50-04	1766 mg	-9 mg	2300 mg	284 mg	2.04
50 lb	SC-50-05	106 mg		2300 mg	284 mg	2.04
50 lb	SC-50-06	776 mg		2300 mg	284 mg	2.04
50 lb	SC-50-07	541 mg		2300 mg	284 mg	2.04
50 lb	SC-50-08	1566 mg	-19 mg	2300 mg	284 mg	2.04
50 lb	SC-50-09	1251 mg		2300 mg	284 mg	2.04
50 lb	SC-50-10	1056 mg		2300 mg	284 mg	2.04
50 lb	SC-50-11	846 mg		2300 mg	284 mg	2.04
50 lb	SC-50-12	631 mg		2300 mg	284 mg	2.04
50 lb	SC-50-14	1346 mg		2300 mg	284 mg	2.04
50 lb	SC-50-15	1011 mg		2300 mg	284 mg	2.04
50 lb	SC-50-16	-79 mg		2300 mg	284 mg	2.04
50 lb	SC-50-17	796 mg		2300 mg	284 mg	2.04
50 lb	SC-50-18	-109 mg		2300 mg	284 mg	2.04
50 lb	SC-50-19	141 mg		2300 mg	284 mg	2.04
50 lb	SC-50-20	21 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-006	-939 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-010	-24 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-016	-614 mg		2300 mg	284 mg	2.04
50 lb	SC-C4	-1099 mg		2300 mg	284 mg	2.04
50 lb	SC-C56	956 mg		2300 mg	284 mg	2.04
50 lb	SC-CA	-1474 mg		2300 mg	284 mg	2.04

  
Ron Peterson, Metrologist

02/17/2016

Date of Report



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (Sterling)	<b>Report Number:</b>	MP3425
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/15/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/18/16
<b>Artifacts Submitted</b>	50 lb test weights	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.4
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	51.2%
<b>Equipment Used:</b>	Mettler KA-30/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	713.5

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

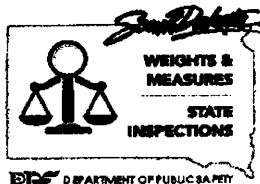
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A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
50 lb	115	626 mg	161 mg	2300 mg	284 mg	2.04
50 lb	B	-529 mg		2300 mg	284 mg	2.04
50 lb	BA-C1	686 mg		2300 mg	284 mg	2.04
50 lb	C	-289 mg		2300 mg	284 mg	2.04
50 lb	C51	561 mg		2300 mg	284 mg	2.04
50 lb	D	-1064 mg		2300 mg	284 mg	2.04
50 lb	E	-774 mg		2300 mg	284 mg	2.04
50 lb	F	-179 mg		2300 mg	284 mg	2.04
50 lb	G	-899 mg		2300 mg	284 mg	2.04
50 lb	H	-834 mg		2300 mg	284 mg	2.04
50 lb	I	-939 mg		2300 mg	284 mg	2.04
50 lb	J	-1134 mg		2300 mg	284 mg	2.04
50 lb	K	-1934 mg	11 mg	2300 mg	284 mg	2.04
50 lb	L	-964 mg		2300 mg	284 mg	2.04
50 lb	M	-1879 mg	126 mg	2300 mg	284 mg	2.04
50 lb	N	-1509 mg		2300 mg	284 mg	2.04
50 lb	O	-854 mg		2300 mg	284 mg	2.04
50 lb	P	-1339 mg		2300 mg	284 mg	2.04
50 lb	Q	-764 mg		2300 mg	284 mg	2.04
50 lb	R	-219 mg		2300 mg	284 mg	2.04
50 lb	S	-114 mg		2300 mg	284 mg	2.04
50 lb	SC-18	-224 mg		2300 mg	284 mg	2.04
50 lb	SC-48	1281 mg		2300 mg	284 mg	2.04
50 lb	TS-C56	466 mg		2300 mg	284 mg	2.04
50 lb	TS-C56	-294 mg		2300 mg	284 mg	2.04

  
Ron Peterson, Metrologist

02/17/2016  
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**South Dakota Department of Public Safety  
Office of Weights and Measures  
Metrology Lab**

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<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/15/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/16/16
<b>Artifacts Submitted</b>	25 lb test weights	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.4
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	51.2%
<b>Equipment Used:</b>	Mettler KA-30/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	713.5

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

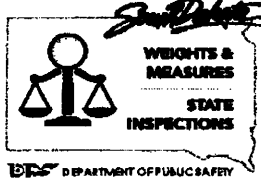
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A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
25 lb	GE-1A	467 mg		1100 mg	138 mg	2.06
25 lb	SC-25-1	532 mg		1100 mg	138 mg	2.08
25 lb	TS-D8	-73 mg		1100 mg	138 mg	2.06

  
Ron Peterson, Metrologist

02/17/2016  
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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  
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<b>Submitted by:</b>	Scale Center (Sterling)	<b>Report Number:</b>	MP3425
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/15/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/16/16
<b>Artifacts Submitted</b>	Weight kit SN SC - 001	<b>Condition of Weights:</b>	FAIR
		<b>Temperature (c):</b>	21.6
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	52
<b>Equipment Used:</b>	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	713.4

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.  
Standards Used: SD Lab Working Standards.

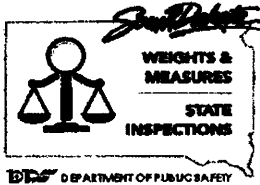
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A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
2 lb	1	-3 mg		91 mg	11 mg	2.06
2 lb	2	26 mg		91 mg	11 mg	2.06
2 lb	3	7 mg		91 mg	11 mg	2.06
2 lb	4	-4 mg		91 mg	11 mg	2.06
2 lb	5	11 mg		91 mg	11 mg	2.06
2 lb	6	22 mg		91 mg	11 mg	2.06
2 lb	7	5 mg		91 mg	11 mg	2.06
2 lb	8	-4 mg		91 mg	11 mg	2.06
2 lb	9	-2 mg		91 mg	11 mg	2.06
2 lb	10	-22 mg		91 mg	11 mg	2.06
2 lb	11	6 mg		91 mg	11 mg	2.06
2 lb	12	6 mg		91 mg	11 mg	2.06
2 lb	13	13 mg		91 mg	11 mg	2.06
2 lb	14	3 mg		91 mg	11 mg	2.06
1 lb	1	-2.4 mg		70 mg	8.5 mg	2.05
1 lb	2	-8.4 mg		70 mg	8.5 mg	2.05
8 oz		8.1 mg		45 mg	5.5 mg	2.05
4 oz		-2.2 mg		23 mg	2.8 mg	2.06
2 oz		7.1 mg		11 mg	1.3 mg	2.06
1 oz		1.18 mg		5.4 mg	0.66 mg	2.05
1/2 oz		-0.06 mg		2.8 mg	0.34 mg	2.05
1/4 oz		0.03 mg		1.7 mg	0.21 mg	2.05

  
Ron Peterson, Metrologist

02/17/2016  
Date of Report



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (Sterling)	<b>Report Number:</b>	MP3425
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/15/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/16/16
<b>Artifacts Submitted</b>	Weight kit SN SC-2006-2	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.6
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	52
<b>Equipment Used:</b>	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	713.4

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

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. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

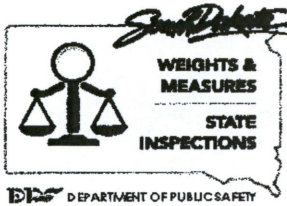
A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 kg		162 mg		500 mg	61 mg	2.07
2 kg		50 mg		200 mg	24 mg	2.06
2 kg		55 mg		200 mg	24 mg	2.06
1 kg		22 mg		100 mg	12 mg	2.06
500 g		18.7 mg		70 mg	8.6 mg	2.06
200 g		18.4 mg		40 mg	5.0 mg	2.06
200 g		19.3 mg		40 mg	5.0 mg	2.06
100 g		6.0 mg		20 mg	2.4 mg	2.06
50 g		4.0 mg		10 mg	1.2 mg	2.06
20 g		1.79 mg		4 mg	0.49 mg	2.05
20 g		1.59 mg		4 mg	0.49 mg	2.05
10 g		1.19 mg		2 mg	0.25 mg	2.05
5 g		0.85 mg		1.5 mg	0.39 mg	2.06
2 g		0.59 mg		1.1 mg	0.14 mg	2.06
2 g		0.25 mg		1.1 mg	0.14 mg	2.06
1 g		0.38 mg		0.9 mg	0.12 mg	2.06
500 mg		0.323 mg		0.72 mg	0.094 mg	2.06
200 mg		0.268 mg		0.54 mg	0.079 mg	2.06
200 mg		0.226 mg		0.54 mg	0.079 mg	2.06
100 mg		0.155 mg		0.43 mg	0.075 mg	2.06
50 mg		0.014 mg		0.35 mg	0.060 mg	2.07
20 mg		0.045 mg		0.26 mg	0.092 mg	2.06
20 mg		0.085 mg		0.26 mg	0.092 mg	2.06
10 mg		0.065 mg		0.21 mg	0.067 mg	2.06

End of Report

  
Ron Peterson, Metrologist

02/17/2016  
Date of Report



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  
Pierre SD 57501

## REPORT OF CALIBRATION

LAB TEST NUMBER: MP3424  
DATE OF REPORT: 02/14/2016  
DATE RECEIVED: 02/10/2016  
DATE OF TEST: 02/11/2016



**Submitted By:** Scale Center (2 nd Truck)  
**Contact:** Tim Huber  
**Mailing Address:** 2900 West Russell  
**City, State, Zip:** Sioux Falls, SD 57107  
**Phone:** 605-838-7107  
**S/A Number:** 1

**Standards Submitted:**

18 - 1000 lb weights  
1 - 3000 lb weight cart  
30 - 50 lb weights  
6 - weight kits

**Uncertainty Statement:** The combined standard uncertainty includes the standard uncertainty reported for the standard and the standard uncertainty for the measurement process. 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 1995 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.

**Traceability statement:**

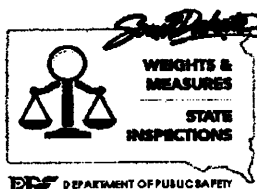
The Standards of the SD Metrology Laboratory used for comparison are traceable to the International System of Units (SI) through the National Institute of Standards and Technology. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability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

This document does not represent or imply endorsement by NIST Office of Weights and Measures 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



02/15/16  
Date



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (2 nd Truck)	<b>Report Number:</b>	MP3424
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/10/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/11/16
<b>Manufacturer:</b>	Dunbar	<b>Condition of Cart:</b>	FAIR
<b>Serial Number:</b>	029-1353082986	<b>Temperature (c):</b>	20.0
<b>Test Method Used:</b>	SOP 33 Calibrations of Weight Carts, Sep 2014	<b>Humidity:</b>	40.0%
<b>Nominal (lb):</b>	3000	<b>Pressure (mm/Hg):</b>	715.9
<b>Tolerance (lb):</b>	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)
-1.01	0.11	0.22

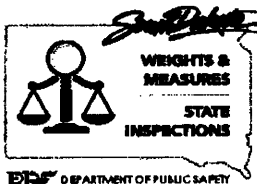
The weight cart was allowed to come to environmental equilibrium in the laboratory prior to calibration. The weight cart was adjusted, as needed and noted above, as close as possible to zero error. All fluid levels must be maintained as close to reference levels as possible during use. Any maintenance, 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.

Test equipment used include recently calibrated weights and a Sartorius PR 6246/33 load cell.

*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. The assigned test number provides documented evidence for measurement traceability.*

  
\_\_\_\_\_  
Ron Peterson, Metrologist

02/14/2016  
\_\_\_\_\_  
Date of Report



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (2 nd Truck)	<b>Report Number:</b>	MP3424
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/10/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/11/16
<b>Artifacts Submitted</b>	18 - 1000 lb test weights	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	20
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	40%
<b>Equipment Used:</b>	Russell Balance/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	711

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

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

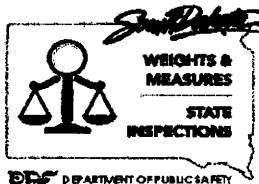
The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
1000 lb	2	-0.022 lb -10.1 g		45 g	6.8 g	2.03
1000 lb	3	-0.029 lb -13.3 g		45 g	6.8 g	2.03
1000 lb	4	-0.033 lb -15.1 g		45 g	6.8 g	2.03
1000 lb	5	-0.035 lb -15.7 g		45 g	6.8 g	2.03
1000 lb	6	0.000 lb 0.2 g		45 g	6.8 g	2.03
1000 lb	8	-0.038 lb -17.3 g		45 g	6.8 g	2.03
1000 lb	9	-0.003 lb -1.5 g		45 g	6.8 g	2.03
1000 lb	10	0.001 lb 0.3 g		45 g	6.8 g	2.03
1000 lb	11	-0.013 lb -5.9 g		45 g	6.8 g	2.03
1000 lb	13	-0.039 lb -17.9 g		45 g	6.8 g	2.03
1000 lb	14	-0.018 lb -8.1 g		45 g	6.8 g	2.03
1000 lb	15	-0.040 lb -18.3 g		45 g	6.8 g	2.03
1000 lb	17	0.011 lb 5.1 g		45 g	6.8 g	2.03
1000 lb	18	-0.008 lb -2.5 g		45 g	6.8 g	2.03
1000 lb	A	0.071 lb 32.0 g		45 g	6.8 g	2.03
1000 lb	B	0.083 lb 37.6 g	0.003 lb 1.5 g	45 g	6.8 g	2.03
1000 lb	C	-0.005 lb -2.3 g		45 g	6.8 g	2.03
1000 lb	TS-A12	-0.056 lb -25.2 g	0.001 lb 0.6 g	45 g	6.8 g	2.03

  
Ron Peterson, Metrologist

02/14/2016  
Date of Report



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (2 nd Truck)	<b>Report Number:</b>	MP3424
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/10/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/11/16
<b>Artifacts Submitted</b>	50 lb test weights	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.1
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	48.5%
<b>Equipment Used:</b>	Mettler KA-30/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	716.0

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

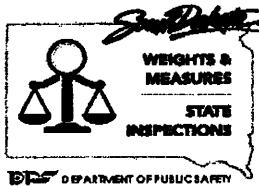
The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
50 lb	MA-10	116 mg		2300 mg	284 mg	2.04
50 lb	SC-48	6 mg		2300 mg	284 mg	2.04
50 lb	SC-C05	-149 mg		2300 mg	284 mg	2.04
50 lb	SC-C14	371 mg		2300 mg	284 mg	2.04
50 lb	SC-C186	481 mg		2300 mg	284 mg	2.04
50 lb	SC-C19	46 mg		2300 mg	284 mg	2.04
50 lb	SC-C27	-374 mg		2300 mg	284 mg	2.04
50 lb	SC-C28	-599 mg		2300 mg	284 mg	2.04
50 lb	SC-C4	141 mg		2300 mg	284 mg	2.04
50 lb	SC-C52	276 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-002	196 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-004	-1879 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-007	-59 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-011	-1434 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-012	-1979 mg	-224 mg	2300 mg	284 mg	2.04
50 lb	SCH-50-014	-449 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-015	-1429 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-017	466 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-018	-1494 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-019	-1089 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-08	-104 mg		2300 mg	284 mg	2.04

  
Ron Peterson, Metrologist

02/14/2016  
Date of Report



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (2 nd Truck)	<b>Report Number:</b>	MP3424
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/10/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/11/16
<b>Artifacts Submitted</b>	50 lb test weights	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.1
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	48.5%
<b>Equipment Used:</b>	Mettler KA-30/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	716.0

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

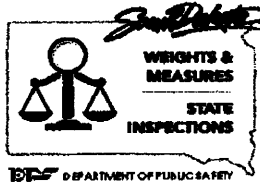
The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
50 lb	TS-57	-849 mg		2300 mg	284 mg	2.04
50 lb	TS-C04	-1064 mg		2300 mg	284 mg	2.04
50 lb	TS-C09	-1509 mg		2300 mg	284 mg	2.04
50 lb	TS-C46	-209 mg		2300 mg	284 mg	2.04
50 lb	TS-C47	328 mg		2300 mg	284 mg	2.04
50 lb	TS-C54	-1134 mg		2300 mg	284 mg	2.04
50 lb	TS-C55	221 mg		2300 mg	284 mg	2.04
50 lb	TS-C67	-1629 mg	76 mg	2300 mg	284 mg	2.04
50 lb	TS-C92	-504 mg		2300 mg	284 mg	2.04

  
Ron Peterson, Metrologist

02/14/2016  
Date of Report



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (2 nd Truck)	<b>Report Number:</b>	MP3424
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/10/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/11/16
<b>Artifacts Submitted</b>	Weight kit SN 041304	<b>Condition of Weights:</b>	FAIR
		<b>Temperature (c):</b>	20.9
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	48.8
<b>Equipment Used:</b>	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	711.2

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.  
Standards Used: SD Lab Working Standards.

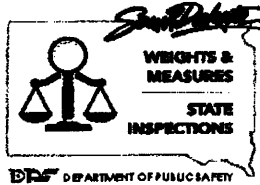
The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	1	-90 mg		230 mg	28 mg	2.05
5 lb	2	-125 mg		230 mg	28 mg	2.05
5 lb	1	31 mg		230 mg	28 mg	2.05
5 lb	2	-71.9 mg		230 mg	27.8 mg	2.05
5 lb	3	-19.9 mg		230 mg	27.8 mg	2.05
1 lb	4	41.6 mg		70 mg	8.5 mg	2.05
1 lb	5	-47.4 mg		70 mg	8.5 mg	2.05
1 lb	1	8.6 mg		70 mg	8.5 mg	2.05
1 lb	2	-52.4 mg		70 mg	8.5 mg	2.05
1 lb	3	-15.4 mg		70 mg	8.54 mg	2.05
0.1 lb	4	1.4 mg		9.1 mg	1.11 mg	2.06
0.05 lb	84	0.38 mg		4.5 mg	0.55 mg	2.06
0.05 lb		-0.19 mg		4.5 mg	0.55 mg	2.06
0.02 lb	.	0.49 mg		1.8 mg	0.22 mg	2.06
0.01 lb	..	0.63 mg		1.5 mg	0.19 mg	2.06
0.005 lb	.	-0.02 mg		1.2 mg	0.18 mg	2.06
8 oz		1.00 mg		45 mg	5.53 mg	2.05
4 oz		7.06 mg		23 mg	2.80 mg	2.06
2 oz		-1.15 mg		11 mg	1.34 mg	2.06
1 oz		0.27 mg		5.4 mg	0.66 mg	2.05
1 oz		2.72 mg		5.4 mg	0.66 mg	2.05
1/2 oz		0.29 mg		2.8 mg	0.34 mg	2.05
1/4 oz		0.13 mg		1.7 mg	0.21 mg	2.05
1/8 oz		0.33 mg		1.3 mg	0.17 mg	2.05
1/16 oz		0.05 mg		1.1 mg	0.14 mg	2.05

  
Ron Peterson, Metrologist

02/14/2016  
Date of Report



**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  
Pierre SD 57501

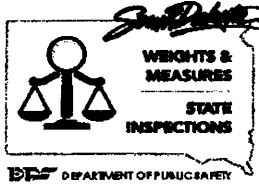
<b>Submitted by:</b>	Scale Center (2 nd Truck)	<b>Report Number:</b>	MP3424
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/10/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/11/16
<b>Artifacts Submitted</b>	Weight kit SN 031012A	<b>Condition of Weights:</b>	FAIR
		<b>Temperature (c):</b>	20.9
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	48.8
<b>Equipment Used:</b>	Mettler AX 205 DR/ Mettler PR503/ Velsala PTU301	<b>Pressure (mm/Hg):</b>	711.2

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.  
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. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.  
A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	1	105 mg		230 mg	28 mg	2.05
5 lb	2	82 mg		230 mg	28 mg	2.05
5 lb	3	65 mg		230 mg	28 mg	2.05
5 lb	4	79.1 mg		230 mg	28 mg	2.05
5 lb	5	46.1 mg		230 mg	28 mg	2.05
1 lb	1	22.6 mg		70 mg	9 mg	2.05
1 lb	2	23.6 mg		70 mg	9 mg	2.05
1 lb	3	14.8 mg		70 mg	8.5 mg	2.05
1 lb	4	22.6 mg		70 mg	8.5 mg	2.05
1 lb	5	30.6 mg		70 mg	8.5 mg	2.05
0.5 lb	4	11.1 mg		45 mg	5.5 mg	2.05
0.2 lb	5	8.35 mg		18 mg	2.2 mg	2.06
0.2 lb	.	6.93 mg		18 mg	2.2 mg	2.06
0.1 lb		4.81 mg		9.1 mg	1.1 mg	2.06
0.05 lb		1.90 mg		4.5 mg	0.6 mg	2.06
0.02 lb		0.53 mg		1.8 mg	0.22 mg	2.06
0.02 lb	.	0.21 mg		1.8 mg	0.22 mg	2.06
0.01 lb		0.29 mg		1.5 mg	0.19 mg	2.06
0.005 lb		0.82 mg		1.2 mg	0.18 mg	2.06
0.002 lb		0.59 mg		0.87 mg	0.11 mg	2.06
0.002 lb	.	0.44 mg		0.87 mg	0.11 mg	2.06
0.001 lb		0.35 mg		0.7 mg	0.10 mg	2.06

  
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Ron Peterson, Metrologist

02/14/2016  
Date of Report




**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  
Pierre SD 57501

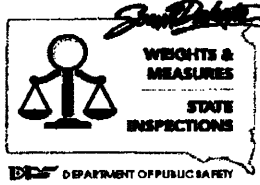
<b>Submitted by:</b>	Scale Center (2 nd Truck)	<b>Report Number:</b>	MP3424
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/10/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/11/16
<b>Artifacts Submitted</b>	Weight kit SN 031012B	<b>Condition of Weights:</b>	FAIR
		<b>Temperature (c):</b>	20.9
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	48.8
<b>Equipment Used:</b>	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	711.2

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.  
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. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.  
A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	1	62 mg		230 mg	28 mg	2.05
5 lb	2	45 mg		230 mg	28 mg	2.05
5 lb	3	38 mg		230 mg	28 mg	2.05
5 lb	4	64.1 mg		230 mg	28 mg	2.05
5 lb	5	41.1 mg		230 mg	28 mg	2.05
1 lb	1	23.6 mg		70 mg	9 mg	2.05
1 lb	2	10.6 mg		70 mg	9 mg	2.05
1 lb	3	17.6 mg		70 mg	8.5 mg	2.05
1 lb	4	22.6 mg		70 mg	8.5 mg	2.05
1 lb	5	11.8 mg		70 mg	8.5 mg	2.05
0.5 lb	4	6.1 mg		45 mg	5.5 mg	2.05
0.2 lb	5	7.21 mg		18 mg	2.2 mg	2.06
0.2 lb	.	2.79 mg		18 mg	2.2 mg	2.06
0.1 lb		4.04 mg		9.1 mg	1.1 mg	2.06
0.05 lb		0.53 mg		4.5 mg	0.6 mg	2.06
0.02 lb		0.50 mg		1.8 mg	0.22 mg	2.06
0.02 lb	.	0.75 mg		1.8 mg	0.22 mg	2.06
0.01 lb		0.44 mg		1.5 mg	0.19 mg	2.06
0.005 lb		0.90 mg		1.2 mg	0.18 mg	2.06
0.002 lb		0.57 mg		0.87 mg	0.11 mg	2.06
0.002 lb	.	0.51 mg		0.87 mg	0.11 mg	2.06
0.001 lb		0.40 mg		0.7 mg	0.10 mg	2.06

  
\_\_\_\_\_  
Ron Peterson, Metrologist

02/14/2016  
Date of Report



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (2 nd Truck)	<b>Report Number:</b>	MP3424
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/10/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/11/16
<b>Artifacts Submitted</b>	Weight kit SN 030512A	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.1
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	47.2
<b>Equipment Used:</b>	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	711.1

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.  
Standards Used: SD Lab Working Standards.

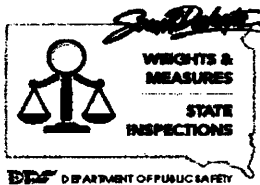
The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 kg		55 mg		500 mg	81 mg	2.07
2 kg		77 mg		200 mg	24 mg	2.06
2 kg		95 mg		200 mg	24 mg	2.06
1 kg		32 mg		100 mg	12 mg	2.06
500 g		14.7 mg		70 mg	8.6 mg	2.06
200 g		12.7 mg		40 mg	5.0 mg	2.06
200 g		8.9 mg		40 mg	5.0 mg	2.06
100 g		8.1 mg		20 mg	2.4 mg	2.06
50 g		1.2 mg		10 mg	1.2 mg	2.06
20 g		1.57 mg		4 mg	0.49 mg	2.05
20 g		1.44 mg		4 mg	0.49 mg	2.05
10 g		0.78 mg		2 mg	0.25 mg	2.05
5 g		0.81 mg		1.5 mg	0.39 mg	2.06
2 g		0.10 mg		1.1 mg	0.14 mg	2.06
2 g		0.19 mg		1.1 mg	0.14 mg	2.06
1 g		0.22 mg		0.9 mg	0.12 mg	2.06
500 mg		0.313 mg		0.72 mg	0.094 mg	2.06
200 mg		0.246 mg		0.54 mg	0.079 mg	2.06
200 mg		0.266 mg		0.54 mg	0.079 mg	2.06
100 mg		0.085 mg		0.43 mg	0.075 mg	2.06
50 mg		0.014 mg		0.35 mg	0.060 mg	2.07
20 mg		0.065 mg		0.26 mg	0.092 mg	2.06
20 mg		0.125 mg		0.26 mg	0.092 mg	2.06
10 mg		0.065 mg		0.21 mg	0.067 mg	2.06

  
Ron Peterson, Metrologist

02/14/2016  
Date of Report



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (2 nd Truck)	<b>Report Number:</b>	MP3424
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/10/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/11/16
<b>Artifacts Submitted</b>	Weight kit SN SC-2006-1	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.1
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	47.2
<b>Equipment Used:</b>	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	711.1

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

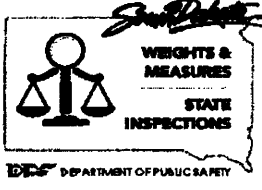
The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 kg		199 mg		500 mg	61 mg	2.07
2 kg		46 mg		200 mg	24 mg	2.06
2 kg		44 mg		200 mg	24 mg	2.06
1 kg		18 mg		100 mg	12 mg	2.06
500 g		23.7 mg		70 mg	8.6 mg	2.06
200 g		14.6 mg		40 mg	5.0 mg	2.06
200 g		18.3 mg		40 mg	5.0 mg	2.06
100 g		7.7 mg		20 mg	2.4 mg	2.06
50 g		4.2 mg		10 mg	1.2 mg	2.06
20 g		1.73 mg		4 mg	0.49 mg	2.05
20 g		1.58 mg		4 mg	0.49 mg	2.05
10 g		0.40 mg		2 mg	0.25 mg	2.05
5 g		0.61 mg		1.5 mg	0.39 mg	2.06
2 g		0.30 mg		1.1 mg	0.14 mg	2.06
2 g		0.41 mg		1.1 mg	0.14 mg	2.06
1 g		0.10 mg		0.9 mg	0.12 mg	2.06
500 mg		0.273 mg		0.72 mg	0.094 mg	2.06
200 mg		0.226 mg		0.54 mg	0.079 mg	2.06
200 mg		0.248 mg		0.54 mg	0.079 mg	2.06
100 mg		0.195 mg		0.43 mg	0.075 mg	2.06
50 mg		0.164 mg		0.35 mg	0.060 mg	2.07
20 mg		0.105 mg		0.26 mg	0.092 mg	2.06
20 mg		0.045 mg		0.26 mg	0.092 mg	2.06
10 mg		0.055 mg		0.21 mg	0.067 mg	2.06

  
Ron Peterson, Metrologist

02/14/2016  
Date of Report



**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  
 Pierre SD 57501

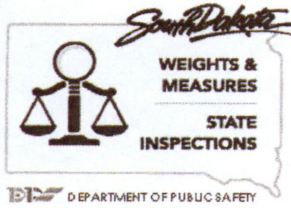
Submitted by: Scale Center (2 nd Truck) Report Number: MP3424  
 Mailing Address: 2900 West Russell Date Received: 02/10/16  
 City, State, Zip: Sioux Falls, SD 57107 Date tested: 02/11/16  
 Artifacts Submitted: Weight kit SN SC-2000 Condition of Weights: GOOD  
 Temperature (c): 21.1  
 Test Method Used: SOP 8/ MODIFIED SUB, Sep 2014 Humidity: 47.2  
 Equipment Used: Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301 Pressure (mm/Hg): 711.1

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.  
 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. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.  
 A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 kg		159 mg		500 mg	61 mg	2.07
1 kg		39 mg		100 mg	12 mg	2.06
1 kg	kilo	-6 mg		100 mg	12 mg	2.06
500 g		25 mg		70 mg	9 mg	2.06
200 g		14.0 mg		40 mg	5.0 mg	2.06
200 g		16.6 mg		40 mg	5.0 mg	2.06
100 g		4.9 mg		20 mg	2.4 mg	2.06
50 g		4.3 mg		10 mg	1.2 mg	2.06
20 g		1.4 mg		4 mg	0.5 mg	2.05
20 g		2.06 mg		4 mg	0.49 mg	2.05
10 g		0.82 mg		2 mg	0.25 mg	2.05
5 g		0.46 mg		1.5 mg	0.39 mg	2.06
2 g		0.82 mg		1.1 mg	0.14 mg	2.06
2 g		0.16 mg		1.1 mg	0.14 mg	2.06
1 g		0.39 mg		0.9 mg	0.12 mg	2.06
200 mg		0.13 mg		0.54 mg	0.08 mg	2.06
200 mg		0.256 mg		0.54 mg	0.079 mg	2.06
100 mg		0.275 mg		0.43 mg	0.075 mg	2.06
50 mg		0.064 mg		0.35 mg	0.060 mg	2.07
20 mg		-0.005 mg		0.26 mg	0.062 mg	2.06
10 mg		0.125 mg		0.21 mg	0.067 mg	2.06

  
 Ron Peterson, Metrologist

02/14/2016  
 Date of Report



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  
Pierre SD 57501

## REPORT OF CALIBRATION

LAB TEST NUMBER: MP3423  
DATE OF REPORT: 02/10/2016  
DATE RECEIVED: 02/08/2016  
DATE OF TEST: 02/09/2016



**Submitted By:** Scale Center (Truck 08)  
**Contact:** Tim Huber  
**Mailing Address:** 2900 West Russell  
**City, State, Zip:** Sioux Falls, SD 57107  
**Phone:** 605-838-7107  
**S/A Number:** 1

**Standards Submitted:**

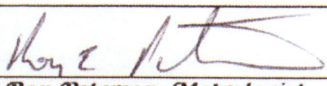
18 - 1000 lb weights  
1 - 3000 lb weight cart  
56 - 50 lb weights  
5 - 25 lb weights  
4 - weight kits

**Uncertainty Statement:** The combined standard uncertainty includes the standard uncertainty reported for the standard and the standard uncertainty for the measurement process. 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 1995 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.

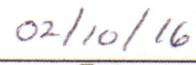
**Traceability statement:**

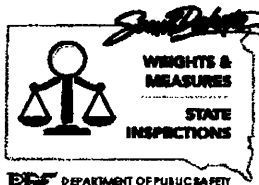
The Standards of the SD Metrology Laboratory used for comparison are traceable to the International System of Units (SI) through the National Institute of Standards and Technology. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability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

This document does not represent or imply endorsement by NIST Office of Weights and Measures 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 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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (Truck 08)	<b>Report Number:</b>	MP3423
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/08/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/09/16
<b>Manufacturer:</b>	Dunbar	<b>Condition of Cart:</b>	FAIR
<b>Serial Number:</b>	86610842	<b>Temperature (c):</b>	20.0
<b>Test Method Used:</b>	SOP 33 Calibrations of Weight Carts, Sep 2014	<b>Humidity:</b>	40.0%
<b>Nominal (lb):</b>	3000	<b>Pressure (mm/Hg):</b>	718.6
<b>Tolerance (lb):</b>	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)
0.79	0.19	0.22

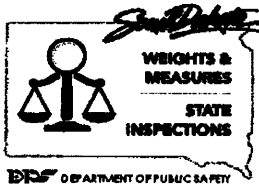
The weight cart was allowed to come to environmental equilibrium in the laboratory prior to calibration. The weight cart was adjusted, as needed and noted above, as close as possible to zero error. All fluid levels must be maintained as close to reference levels as possible during use. Any maintenance, 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.

Test equipment used include recently calibrated weights and a Sartorius PR 6246/33 load cell.

*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. The assigned test number provides documented evidence for measurement traceability.*

  
\_\_\_\_\_  
Ron Peterson, Metrologist

02/10/2016  
\_\_\_\_\_  
Date of Report



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (Truck 08)	<b>Report Number:</b>	MP3423
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/08/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/09/16
<b>Artifacts Submitted</b>	18 - 1000 lb test weights	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	20.5
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	47%
<b>Equipment Used:</b>	Russell Balance/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	720.7

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

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 numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

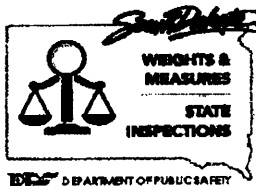
Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K		
1000 lb	2.10	-0.132 lb	-59.7 g	0.008 lb	3.7 g	45 g	6.8 g	2.03
1000 lb	1.09	0.015 lb	6.7 g			45 g	6.8 g	2.03
1000 lb	2.09	0.027 lb	12.1 g			45 g	6.8 g	2.03
1000 lb	3.09	0.020 lb	9.3 g			45 g	6.8 g	2.03
1000 lb	4.09	0.028 lb	12.7 g			45 g	6.8 g	2.03
1000 lb	5.09	0.058 lb	26.1 g			45 g	6.8 g	2.03
1000 lb	6.09	0.001 lb	0.5 g			45 g	6.8 g	2.03
1000 lb	7.09	0.014 lb	6.6 g			45 g	6.8 g	2.03
1000 lb	8.09	0.018 lb	8.0 g			45 g	6.8 g	2.03
1000 lb	9.09	0.007 lb	3.4 g			45 g	6.8 g	2.03
1000 lb	10.09	0.007 lb	3.2 g			45 g	6.8 g	2.03
1000 lb	11.09	0.076 lb	34.3 g			45 g	6.8 g	2.03
1000 lb	12.09	0.054 lb	24.4 g			45 g	6.8 g	2.03
1000 lb	13.09	0.058 lb	26.3 g			45 g	6.8 g	2.03
1000 lb	14.09	0.049 lb	22.3 g			45 g	6.8 g	2.03
1000 lb	15.09	0.050 lb	22.8 g			45 g	6.8 g	2.03
1000 lb	16.09	-0.010 lb	-4.7 g			45 g	6.8 g	2.03
1000 lb	17.09	0.052 lb	23.6 g			45 g	6.8 g	2.03

  
Ron Peterson, Metrologist

02/10/2016  
Date of Report

Office of Weights and Measures  
118 W. Capitol Ave.  
Pierre, SD 57501

Phone: 605-773-3697  
Fax: 605-773-6631  
www.dps.sd.gov



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (Truck 08)	<b>Report Number:</b>	MP3423
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/08/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/09/16
<b>Artifacts Submitted</b>	50 lb test weights	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.1
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	48.5%
<b>Equipment Used:</b>	Mettler KA-30/ Valsala PTU301	<b>Pressure (mm/Hg):</b>	718.5

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

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. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
50 lb	1.11	-179 mg		2300 mg	284 mg	2.04
50 lb	35	-179 mg		2300 mg	284 mg	2.04
50 lb	2PAO	-3494 mg	111 mg	2300 mg	284 mg	2.04
50 lb	AA	-2734 mg	116 mg	2300 mg	284 mg	2.04
50 lb	B	-184 mg		2300 mg	284 mg	2.04
50 lb	BB	-734 mg		2300 mg	284 mg	2.04
50 lb	C109	51 mg		2300 mg	284 mg	2.04
50 lb	CC	-1779 mg	-34 mg	2300 mg	284 mg	2.04
50 lb	D-C3	426 mg		2300 mg	284 mg	2.04
50 lb	DD	-5669 mg	-129 mg	2300 mg	284 mg	2.04
50 lb	EE	-6404 mg		2300 mg	284 mg	2.04
50 lb	FF	-759 mg	-54 mg	2300 mg	284 mg	2.04
50 lb	GG	-3829 mg	31 mg	2300 mg	284 mg	2.04
50 lb	HH	-4179 mg	1 mg	2300 mg	284 mg	2.04
50 lb	II	-279 mg		2300 mg	284 mg	2.04
50 lb	JJ	-3404 mg	156 mg	2300 mg	284 mg	2.04
50 lb	KA-05	776 mg		2300 mg	284 mg	2.04
50 lb	KK	-2774 mg	36 mg	2300 mg	284 mg	2.04
50 lb	LL	-8254 mg	56 mg	2300 mg	284 mg	2.04
50 lb	MM	161 mg		2300 mg	284 mg	2.04

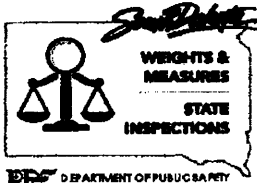
  
Ron Peterson, Metrologist

02/10/2016

Date of Report

Office of Weights and Measures  
118 W. Capitol Ave.  
Pierre, SD 57501

Phone: 605-773-3697  
Fax: 605-773-6631  
www.dps.sd.gov



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (Truck 08)	<b>Report Number:</b>	MP3423
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/08/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/09/16
<b>Artifacts Submitted</b>	50 lb test weights	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.1
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	48.6%
<b>Equipment Used:</b>	Mettler KA-30/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	718.5

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

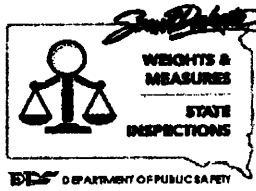
The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
50 lb	NN	-2894 mg	86 mg	2300 mg	284 mg	2.04
50 lb	PP	-1839 mg		2300 mg	284 mg	2.04
50 lb	QQ	-379 mg		2300 mg	284 mg	2.04
50 lb	RR	-1334 mg		2300 mg	284 mg	2.04
50 lb	SC	-1834 mg	136 mg	2300 mg	284 mg	2.04
50 lb	SC .	-4344 mg	11 mg	2300 mg	284 mg	2.04
50 lb	SC-025	-1744 mg	11 mg	2300 mg	284 mg	2.04
50 lb	SC-026	1061 mg		2300 mg	284 mg	2.04
50 lb	SC-035	-279 mg		2300 mg	284 mg	2.04
50 lb	SC100	531 mg		2300 mg	284 mg	2.04
50 lb	SC101	-1124 mg		2300 mg	284 mg	2.04
50 lb	SC102	-2284 mg	486 mg	2300 mg	284 mg	2.04
50 lb	SC104	-2069 mg	26 mg	2300 mg	284 mg	2.04
50 lb	SC105	-1909 mg	-24 mg	2300 mg	284 mg	2.04
50 lb	SC106	-529 mg		2300 mg	284 mg	2.04
50 lb	SC107	-834 mg		2300 mg	284 mg	2.04
50 lb	SC108	-694 mg		2300 mg	284 mg	2.04
50 lb	SC108	-2569 mg	-59 mg	2300 mg	284 mg	2.04
50 lb	SC11	-3054 mg	-59 mg	2300 mg	284 mg	2.04
50 lb	SC-C21	-844 mg		2300 mg	284 mg	2.04

  
Ron Peterson, Metrologist

02/10/2016  
Date of Report



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (Truck 08)	<b>Report Number:</b>	MP3423
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/08/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/09/16
<b>Artifacts Submitted</b>	50 lb test weights	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.1
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	48.5%
<b>Equipment Used:</b>	Mettler KA-30/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	718.5

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

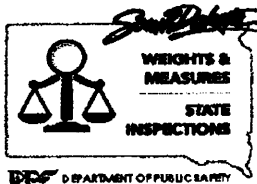
The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
50 lb	SC-C54	76 mg		2300 mg	284 mg	2.04
50 lb	SC-C55	-5004 mg	-19 mg	2300 mg	284 mg	2.04
50 lb	SCH-50-003	-1444 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-005	-609 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-018	-814 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-020	-524 mg		2300 mg	284 mg	2.04
50 lb	SCH-50-13	-769 mg		2300 mg	284 mg	2.04
50 lb	TS-C1	-3704 mg	-24 mg	2300 mg	284 mg	2.04
50 lb	TS-C107	241 mg		2300 mg	284 mg	2.04
50 lb	TS-C11	391 mg		2300 mg	284 mg	2.04
50 lb	TS-C51	-849 mg		2300 mg	284 mg	2.04
50 lb	TS-C52	631 mg		2300 mg	284 mg	2.04
50 lb	TS-C53	378 mg		2300 mg	284 mg	2.04
50 lb	TS-C58	-569 mg		2300 mg	284 mg	2.04
50 lb	TS-C66	-6134 mg		2300 mg	284 mg	2.04
50 lb	TS-C83	11 mg		2300 mg	284 mg	2.04

  
Ron Peterson, Metrologist

02/10/2016  
Date of Report



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (Truck 08)	<b>Report Number:</b>	MP3423
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/08/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/08/16
<b>Artifacts Submitted</b>	25 lb test weights	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.1
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	48.5%
<b>Equipment Used:</b>	Mettler KA-30/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	718.5

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

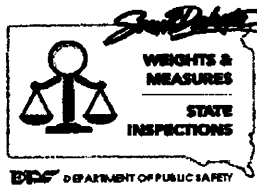
The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
25 lb	AA	612 mg		1100 mg	138 mg	2.06
25 lb	BB	1012 mg	77 mg	1100 mg	138 mg	2.06
25 lb	CC	-488 mg		1100 mg	138 mg	2.06
25 lb	SC-25-1	582 mg		1100 mg	138 mg	2.06
25 lb	SC-25-3	-433 mg		1100 mg	138 mg	2.06

  
Ron Peterson, Metrologist

02/10/2016  
Date of Report



**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  
 Pierre SD 57501

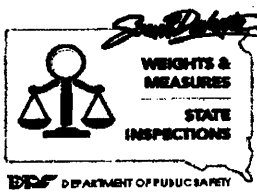
<b>Submitted by:</b>	Scale Center (Truck 08)	<b>Report Number:</b>	MP3423
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/08/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/08/16
<b>Artifacts Submitted</b>	Weight kit SN SC - 4 - 87	<b>Condition of Weights:</b>	FAIR
		<b>Temperature (c):</b>	20.9
<b>Test Method Used:</b>	SOP & MODIFIED SUB, Sep 2014	<b>Humidity:</b>	48.8
<b>Equipment Used:</b>	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	711.2

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.  
 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. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.  
 A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb		38 mg		230 mg	28 mg	2.05
1 lb	1	-24 mg		70 mg	9 mg	2.05
1 lb	2	-22 mg		70 mg	9 mg	2.05
1 lb	3	8.8 mg		70 mg	8.5 mg	2.05
1 lb	4	-18.4 mg		70 mg	8.5 mg	2.05
1 lb	5	19.6 mg		70 mg	8.5 mg	2.05
4 oz	1	3.6 mg		23 mg	2.8 mg	2.06
4 oz	2	0.4 mg		23 mg	2.8 mg	2.06
4 oz	6	3.0 mg		23 mg	2.8 mg	2.06
1 oz		1.1 mg		5.4 mg	0.66 mg	2.05
1 oz	.	1.8 mg		5.4 mg	0.66 mg	2.05
1 oz	..	2.03 mg		5.4 mg	0.66 mg	2.05
1/2 oz		1.60 mg		2.8 mg	0.34 mg	2.05
1/2 oz	.	1.31 mg		2.8 mg	0.34 mg	2.05
1/4 oz		0.68 mg		1.7 mg	0.21 mg	2.05
1/4 oz	.	1.02 mg		1.7 mg	0.21 mg	2.05

  
 \_\_\_\_\_  
 Ron Peterson, Metrologist

02/10/2016  
Date of Report



**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  
Pierre SD 57501

<b>Submitted by:</b>	Scale Center (Truck 08)	<b>Report Number:</b>	MP3423
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/08/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/09/16
<b>Artifacts Submitted</b>	Weight kit SN MAS-2A8C	<b>Condition of Weights:</b>	FAIR
		<b>Temperature (c):</b>	20.9
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	48.8
<b>Equipment Used:</b>	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	711.2

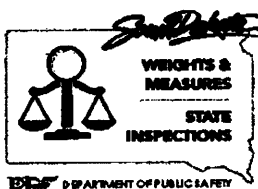
Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.  
Standards Used: SD Lab Working Standards.  
The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.  
A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
10 lb	1	32 mg		450 mg	55 mg	2.06
10 lb	2	-74 mg		450 mg	55 mg	2.06
5 lb	1	70 mg		230 mg	28 mg	2.05
5 lb	2	-185.9 mg		230 mg	28 mg	2.05
5 lb	3	80.1 mg		230 mg	28 mg	2.05
5 lb	4	64.1 mg		230 mg	28 mg	2.05
5 lb	5	47.1 mg		230 mg	28 mg	2.05
1 lb	1	-4.4 mg		70 mg	8.5 mg	2.05
1 lb	2	3.6 mg		70 mg	8.5 mg	2.05
1 lb	3	17.8 mg		70 mg	8.5 mg	2.05
1 lb	4	-2.4 mg		70 mg	8.5 mg	2.05
1 lb	5	-21.40 mg		70 mg	8.5 mg	2.05
8 oz		26.10 mg		45 mg	5.5 mg	2.05
4 oz		5.32 mg		23 mg	2.8 mg	2.06
2 oz		3.95 mg		11 mg	1.3 mg	2.06
1 oz		1.27 mg		5.4 mg	0.66 mg	2.05
1 oz	Toledo	6.40 mg		5.4 mg	0.66 mg	2.05
1/2 oz		0.35 mg		2.8 mg	0.34 mg	2.05
1/4 oz		-0.18 mg		1.7 mg	0.21 mg	2.05
1/8 oz		0.07 mg		1.3 mg	0.17 mg	2.05
1/16 oz		0.24 mg		1.1 mg	0.14 mg	2.05
1/32 oz		0.33 mg		0.87 mg	0.13 mg	2.05
1/32 oz		0.15 mg		0.87 mg	0.13 mg	2.05

Note: 1 oz Toledo weight is out of tolerance.

  
Ron Peterson, Metrologist

02/10/2016  
Date of Report



**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  
Pierre SD 57501

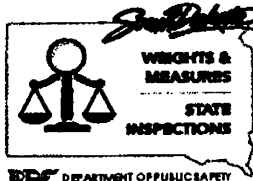
<b>Submitted by:</b>	Scale Center (Truck 08)	<b>Report Number:</b>	MP3423
<b>Mailing Address:</b>	2900 West Russell	<b>Date Received:</b>	02/08/16
<b>City, State, Zip:</b>	Sioux Falls, SD 57107	<b>Date tested:</b>	02/09/16
<b>Artifacts Submitted</b>	Weight kit SN 030512B	<b>Condition of Weights:</b>	GOOD
		<b>Temperature (c):</b>	21.1
<b>Test Method Used:</b>	SOP 8/ MODIFIED SUB, Sep 2014	<b>Humidity:</b>	47.2
<b>Equipment Used:</b>	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	<b>Pressure (mm/Hg):</b>	711.1

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.  
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. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.  
A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 kg		65 mg		500 mg	61 mg	2.07
2 kg		85 mg		200 mg	24 mg	2.08
2 kg		81 mg		200 mg	24 mg	2.06
1 kg		31 mg		100 mg	12 mg	2.06
500 g		15.7 mg		70 mg	8.6 mg	2.06
200 g		16.7 mg		40 mg	5.0 mg	2.06
200 g		14.8 mg		40 mg	5.0 mg	2.06
100 g		7.0 mg		20 mg	2.4 mg	2.06
50 g		2.5 mg		10 mg	1.2 mg	2.06
20 g		1.84 mg		4 mg	0.49 mg	2.05
20 g		0.42 mg		4 mg	0.49 mg	2.05
10 g		0.58 mg		2 mg	0.25 mg	2.05
5 g		0.65 mg		1.5 mg	0.39 mg	2.06
2 g		0.43 mg		1.1 mg	0.14 mg	2.08
2 g		0.37 mg		1.1 mg	0.14 mg	2.06
1 g		0.18 mg		0.9 mg	0.12 mg	2.06
500 mg		0.173 mg		0.72 mg	0.094 mg	2.06
200 mg		0.258 mg		0.54 mg	0.079 mg	2.06
200 mg		0.208 mg		0.54 mg	0.079 mg	2.06
100 mg		0.195 mg		0.43 mg	0.075 mg	2.06
20 mg		0.085 mg		0.26 mg	0.092 mg	2.06
10 mg		0.085 mg		0.21 mg	0.067 mg	2.06

  
Ron Peterson, Metrologist

02/10/2016  
Date of Report



**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  
 Pierre SD 57501

Submitted by: Scale Center (Truck 08) Report Number: MP3423  
 Mailing Address: 2900 West Russell Date Received: 02/08/16  
 City, State, Zip: Sioux Falls, SD 57107 Date tested: 02/09/16  
 Artifacts Submitted: Weight kit SN 31609A Condition of Weights: GOOD  
 Temperature (c): 21.1  
 Test Method Used: SOP 8/ MODIFIED SUB, Sep 2014 Humidity: 47.2  
 Equipment Used: Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301 Pressure (mm/Hg): 711.1

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.  
 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. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.  
 A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 kg		177 mg		500 mg	61 mg	2.07
2 kg		75 mg		200 mg	24 mg	2.06
2 kg		54 mg		200 mg	24 mg	2.06
1 kg		21 mg		100 mg	12 mg	2.06
500 g		25.7 mg		70 mg	8.6 mg	2.06
200 g		10.5 mg		40 mg	5.0 mg	2.06
200 g		14.1 mg		40 mg	5.0 mg	2.06
100 g		8.4 mg		20 mg	2.4 mg	2.06
50 g		2.2 mg		10 mg	1.2 mg	2.06
20 g		1.72 mg		4 mg	0.49 mg	2.05
20 g		1.97 mg		4 mg	0.49 mg	2.05
10 g		0.73 mg		2 mg	0.25 mg	2.05
5 g		0.69 mg		1.5 mg	0.39 mg	2.06
2 g		0.45 mg		1.1 mg	0.14 mg	2.06
2 g		0.62 mg		1.1 mg	0.14 mg	2.06
1 g		0.42 mg		0.9 mg	0.12 mg	2.06
500 mg		0.363 mg		0.72 mg	0.094 mg	2.06
200 mg		0.226 mg		0.54 mg	0.079 mg	2.06
200 mg		0.186 mg		0.54 mg	0.079 mg	2.06
100 mg		0.185 mg		0.43 mg	0.075 mg	2.06
50 mg		0.174 mg		0.35 mg	0.060 mg	2.07
20 mg		0.115 mg		0.26 mg	0.092 mg	2.06
20 mg		0.105 mg		0.26 mg	0.092 mg	2.06
10 mg		0.095 mg		0.21 mg	0.067 mg	2.06

  
 Ron Peterson, Metrologist

02/10/2016  
 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 100 mg  
1000 lb to 0.001 lb  
8 oz to 0.03125 oz

**Weight Carts**  
4000 lb to 2000 lb

**Volume Transfer, II**  
5 gal



2016

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

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

