

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: MP3766
DATE OF REPORT: 01/24/2018
DATE RECEIVED: 01/22/2018
DATE OF TEST: 01/23-24/2018

Submitted By: Prairie Scale Systems INC (Unit 369)
Contact: Cooper Anderson
Mailing Address: 7805 112th Ave S PO Box 69
City, State, Zip: Horace, ND 58047
Phone: 701-281-9373
S/A Number: 131

Standards Submitted:

- | | |
|--------------------------|------------------------------|
| 2 - 4000 lb weight carts | 40 - 50 lb weights |
| 8 - 1000 lb weights | 1 - 20 lb weight |
| 2 - 1000 lb baskets | 1 - 21 piece metric kit |
| | 1 - 21 piece avoirdupois kit |

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.

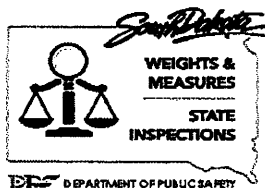

Ron Peterson, Metrologist



01/24/18
Date

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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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:	Prairie Scale Systems INC (Unit 369)	Report Number:	MP3766
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/22/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/24/18
Manufacturer:	Prairie Scale Systems INC (Unit 369)	Condition of Cart:	GOOD
Serial Number:	PSS-95-C2-4K	Temperature (c):	20.5
Test Method Used:	SOP 33 Calibrations of Weight Carts, Jan 2016	Humidity:	21.8%
Nominal (lb):	4000	Pressure (mm/Hg):	716.8
Tolerance (lb):	1.25		

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

As Found (lb)	As Left (lb)	Uncertainty-lb. (k=)
3.72	0.12	0.28

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.

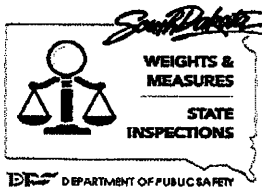
The above weight cart was compared with standards of the State of South Dakota, which are traceable the National Institute of Standards and Technology (NIST) Weights and Measures Division. The assigned test number provides documented evidence for measurement traceability.



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City, State, Zip:	Horace, ND 58047	Date tested:	01/24/18
Manufacturer:	Prairie Scale Systems INC (Unit 369)	Condition of Cart:	GOOD
Serial Number:	PSS-95-C1-4K	Temperature (c):	20.5
Test Method Used:	SOP 33 Calibrations of Weight Carts, Jan 2016	Humidity:	21.8%
Nominal (lb):	4000	Pressure (mm/Hg):	716.8
Tolerance (lb):	1.25		

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

As Found (lb)	As Left (lb)	Uncertainty-lb. (k=)
2.62	-0.07	0.28

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

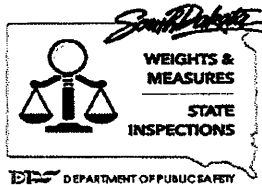
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Submitted by:	Prairie Scale Systems INC (Unit 369)	Report Number:	MP3766
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/22/18
City, State, Zip:	Horace, ND 58047	01/23/2018	01/23/18
Artifacts Submitted	1000 lb weights and baskets	Condition of Weights:	GOOD
		Temperature (c):	20.9
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	44
Equipment Used:	Russell Balance/ Vaisala PTU301	Pressure (mm/Hg):	717

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

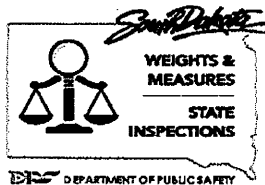
Standards Used: SD Lab 1000 lb and/or 500 lb Working Standards.

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Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
1000 lb	1K-03	-0.013 lb -6.0 g	-0.013 lb -6.0 g	45 g	5.9 g	2.04
1000 lb	1K-04	-0.050 lb -22.5 g	-0.050 lb -22.5 g	45 g	5.9 g	2.04
1000 lb	1K-05	0.003 lb 1.4 g	0.003 lb 1.4 g	45 g	5.9 g	2.04
1000 lb	1K-06	0.003 lb 1.4 g	0.003 lb 1.4 g	45 g	5.9 g	2.04
1000 lb	1K-07	-0.042 lb -18.9 g	-0.042 lb -18.9 g	45 g	5.9 g	2.04
1000 lb	1K-08	0.018 lb 8.2 g	0.018 lb 8.2 g	45 g	5.9 g	2.04
1000 lb	1K-09	0.043 lb 19.5 g	0.043 lb 19.5 g	45 g	5.9 g	2.04
1000 lb	1K-10	0.050 lb 22.8 g	0.050 lb 22.8 g	45 g	5.9 g	2.04
1000 lb	PSS-11-1995 - 1 K	-0.183 lb -82.9 g	0.008 lb 3.5 g	45 g	5.9 g	2.04
1000 lb	PSS-22-1995-1K	-0.150 lb -67.9 g	0.005 lb 2.1 g	45 g	5.9 g	2.04


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Submitted by:	Prairie Scale Systems INC (Unit 369)	Report Number:	MP3766
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/22/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/23/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.2
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	47.3%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	716.0

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

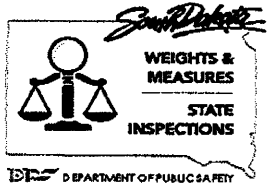
Standards Used: SD Lab Working Standards.

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Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	67	-3709 mg	6 mg	2300 mg	282 mg	2.03
50 lb	17832-1	4036 mg	61 mg	2300 mg	282 mg	2.03
50 lb	17833-1	8166 mg	-9 mg	2300 mg	282 mg	2.03
50 lb	17834-1	3736 mg	186 mg	2300 mg	282 mg	2.03
50 lb	17835-1	4746 mg	51 mg	2300 mg	282 mg	2.03
50 lb	17836-1	8746 mg	-18 mg	2300 mg	282 mg	2.03
50 lb	17837-1	3376 mg	11 mg	2300 mg	282 mg	2.03
50 lb	17838-1	2076 mg	-9 mg	2300 mg	282 mg	2.03
50 lb	17839-1	6786 mg	-4 mg	2300 mg	282 mg	2.03
50 lb	17840-1	4841 mg	11 mg	2300 mg	282 mg	2.03
50 lb	17841-1	3481 mg	-4 mg	2300 mg	282 mg	2.03
50 lb	17842-1	7661 mg	26 mg	2300 mg	282 mg	2.03
50 lb	17843-1	4861 mg	-49 mg	2300 mg	282 mg	2.03
50 lb	17844-1	8376 mg	46 mg	2300 mg	282 mg	2.03
50 lb	17845-1	-1829 mg	1 mg	2300 mg	282 mg	2.03
50 lb	17846-1	5451 mg	-34 mg	2300 mg	282 mg	2.03
50 lb	17847-1	4046 mg	196 mg	2300 mg	282 mg	2.03
50 lb	17848-1	5206 mg	56 mg	2300 mg	282 mg	2.03
50 lb	17849-1	7491 mg	-29 mg	2300 mg	282 mg	2.03
50 lb	17850-1	7521 mg	-24 mg	2300 mg	282 mg	2.03


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Pierre SD 57501

Submitted by:	Prairie Scale Systems INC (Unit 369)	Report Number:	MP3766
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/22/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/23/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.2
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	47.3%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	716.0

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

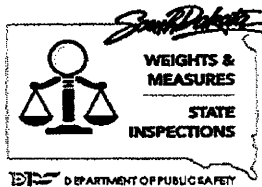
Standards Used: SD Lab Working Standards.

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Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	17851-1	5266 mg	26 mg	2300 mg	282 mg	2.03
50 lb	17852-1	6171 mg	1 mg	2300 mg	282 mg	2.03
50 lb	17853-1	6826 mg	26 mg	2300 mg	282 mg	2.03
50 lb	17854-1	8046 mg	36 mg	2300 mg	282 mg	2.03
50 lb	17855-1	6096 mg	231 mg	2300 mg	282 mg	2.03
50 lb	17856-1	2776 mg	186 mg	2300 mg	282 mg	2.03
50 lb	17858-1	5576 mg	1 mg	2300 mg	282 mg	2.03
50 lb	17859-1	6361 mg	-34 mg	2300 mg	282 mg	2.03
50 lb	17860-1	4656 mg	-14 mg	2300 mg	282 mg	2.03
50 lb	17861-1	5881 mg	-19 mg	2300 mg	282 mg	2.03
50 lb	17862-1	6006 mg	296 mg	2300 mg	282 mg	2.03
50 lb	17863-1	6216 mg	-14 mg	2300 mg	282 mg	2.03
50 lb	17864-1	4166 mg	-4 mg	2300 mg	282 mg	2.03
50 lb	17865-1	5506 mg	-4 mg	2300 mg	282 mg	2.03
50 lb	17866-1	5651 mg	281 mg	2300 mg	282 mg	2.03
50 lb	17867-1	8861 mg	-64 mg	2300 mg	282 mg	2.03
50 lb	17869-1	4456 mg	11 mg	2300 mg	282 mg	2.03
50 lb	17870-1	3781 mg	121 mg	2300 mg	282 mg	2.03
50 lb	17871-1	6266 mg	1 mg	2300 mg	282 mg	2.03
50 lb	17884-1	-12784 mg	-34 mg	2300 mg	282 mg	2.03


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Pierre SD 57501

Submitted by:	Prairie Scale Systems INC (Unit 369)	Report Number:	MP3766
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/22/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/23/18
Artifacts Submitted	20 lb weight	Condition of Weights:	GOOD
		Temperature (c):	21.2
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	47.3%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	716.0

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

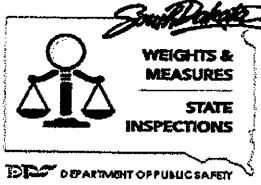
Standards Used: SD Lab Working Standards.

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Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
20 lb	17904-1	73 mg	73 mg	910 mg	90 mg	2.05


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Submitted by:	Prairie Scale Systems INC (Unit 369)	Report Number:	MP3766
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/22/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/24/18
Artifacts Submitted	21 piece Avoirdupois weight kit SN 150105B	Condition of Weights:	GOOD
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	20.9
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisale PTU301	Humidity:	49.6
		Pressure (mm/Hg):	717.1

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

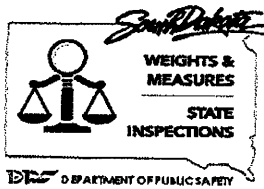
Standards Used: SD Lab Working Standards.

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Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	1	53 mg	53 mg	230 mg	30 mg	2.17
5 lb	2	34 mg	34 mg	230 mg	30 mg	2.17
5 lb	3	44 mg	44 mg	230 mg	30 mg	2.17
5 lb	4	44 mg	44 mg	230 mg	30 mg	2.17
5 lb	5	56 mg	56 mg	230 mg	30 mg	2.17
1 lb	1	20.6 mg	20.6 mg	70 mg	9.2 mg	2.18
1 lb	2	21.6 mg	21.6 mg	70 mg	9.2 mg	2.18
1 lb	3	14.6 mg	14.6 mg	70 mg	9.2 mg	2.18
1 lb	4	14.6 mg	14.6 mg	70 mg	9.2 mg	2.18
1 lb	5	8.6 mg	8.6 mg	70 mg	9.2 mg	2.18
0.5 lb		9.1 mg	9.1 mg	45 mg	6.0 mg	2.17
0.2 lb		2.6 mg	2.6 mg	18 mg	2.3 mg	2.17
0.2 lb		8.4 mg	8.4 mg	18 mg	2.3 mg	2.17
0.1 lb		1.6 mg	1.6 mg	9.1 mg	1.2 mg	2.17
0.05 lb		1.7 mg	1.7 mg	4.5 mg	0.6 mg	2.17
0.02 lb		-0.57 mg	-0.57 mg	1.8 mg	0.23 mg	2.17
0.02 lb		-0.14 mg	-0.14 mg	1.8 mg	0.23 mg	2.17
0.01 lb		0.48 mg	0.48 mg	1.5 mg	0.19 mg	2.17
0.005 lb		0.67 mg	0.67 mg	1.2 mg	0.16 mg	2.13
0.002 lb		0.38 mg	0.38 mg	0.87 mg	0.11 mg	2.13
0.001 lb		0.51 mg	0.51 mg	0.7 mg	0.09 mg	2.13


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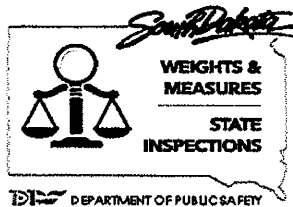
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Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/22/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/24/18
Artifacts Submitted	21 piece Metric kit SN 150105C	Condition of Weights:	GOOD
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	21
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity:	48.6
		Pressure (mm/Hg):	716.9

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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Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
1 kg	1	15 mg	15 mg	100 mg	13 mg	2.18
1 kg	2	20 mg	20 mg	100 mg	13 mg	2.18
500 g		14.7 mg	14.7 mg	70 mg	9.1 mg	2.18
200 g	1	6.6 mg	6.6 mg	40 mg	5.2 mg	2.18
200 g	2	12.3 mg	12.3 mg	40 mg	5.2 mg	2.18
100 g		7.3 mg	7.3 mg	20 mg	2.6 mg	2.17
50 g		5.1 mg	5.1 mg	10 mg	1.3 mg	2.17
20 g		1.65 mg	1.65 mg	4 mg	0.52 mg	2.17
20 g		1.52 mg	1.52 mg	4 mg	0.52 mg	2.17
10 g		1.45 mg	1.45 mg	2 mg	0.26 mg	2.17
5 g		0.49 mg	0.49 mg	1.5 mg	0.19 mg	2.17
2 g		0.79 mg	0.79 mg	1.1 mg	0.15 mg	2.17
2 g		0.40 mg	0.40 mg	1.1 mg	0.15 mg	2.17
1 g		0.76 mg	0.76 mg	0.9 mg	0.12 mg	2.17
500 mg		0.362 mg	0.362 mg	0.72 mg	0.091 mg	2.13
200 mg		0.063 mg	0.063 mg	0.54 mg	0.069 mg	2.13
200 mg		0.241 mg	0.241 mg	0.54 mg	0.069 mg	2.13
100 mg		0.227 mg	0.227 mg	0.43 mg	0.057 mg	2.13
50 mg		0.142 mg	0.142 mg	0.35 mg	0.046 mg	2.13
20 mg		0.040 mg	0.040 mg	0.26 mg	0.036 mg	2.13
10 mg		0.014 mg	0.014 mg	0.21 mg	0.035 mg	2.13


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REPORT OF CALIBRATION

LAB TEST NUMBER: MP3767
DATE OF REPORT: 01/24/2018
DATE RECEIVED: 01/22/2018
DATE OF TEST: 01/23-24/2018

Submitted By: Prairie Scale Systems INC (Unit 539)
Contact: Cooper Anderson
Mailing Address: 7805 112th Ave S PO Box 69
City, State, Zip: Horace, ND 58047
Phone: 701-281-9373
S/A Number: 131

Standards Submitted:

2 - 1000 lb weights	1 - 20 lb weight
4 - 500 lb weights	1 - 22 piece avoirdupois kit
40 - 50 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.

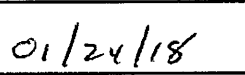
Traceability statement:

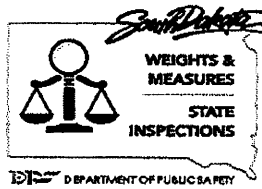
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Metrology Lab**

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:	Prairie Scale Systems INC (Unit 539)	Report Number:	MP3767
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/22/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/23/18
Artifacts Submitted	500 lb and 1000 lb weights	Condition of Weights:	GOOD
		Temperature (c):	20.9
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	44
Equipment Used:	Russell Balance/ Vaisala PTU301	Pressure (mm/Hg):	717

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

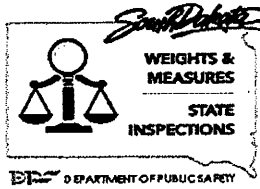
Standards Used: SD Lab 1000 lb and/or 500 lb Working Standards.

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.

Nominal	Serial Number	Correction As Found		Correction As Left		Tolerance	Uncertainty	k
1000 lb	1K-01	-0.176 lb	-79.7 g	0.001 lb	0.6 g	45 g	5.9 g	2.04
1000 lb	1K-02	-0.152 lb	-68.8 g	0.003 lb	1.4 g	45 g	5.9 g	2.04
500 lb	500-01	-0.093 lb	-42.2 g	0.004 lb	1.6 g	23 g	3.4 g	2.08
500 lb	500-02	-0.111 lb	-50.3 g	0.002 lb	0.8 g	23 g	3.4 g	2.08
500 lb	500-03	-0.126 lb	-57.1 g	-0.001 lb	-0.4 g	23 g	3.4 g	2.08
500 lb	500-04	-0.051 lb	-23.3 g	0.004 lb	1.6 g	23 g	3.4 g	2.08


Ron Peterson, Metrologist

01/24/2018
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:	Prairie Scale Systems INC (Unit 539)	Report Number:	MP3767
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/22/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/23/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.2
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	47.3%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	716.0

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

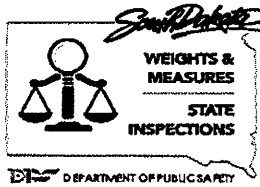
Standards Used: SD Lab Working Standards.

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.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	1	-1804 mg	26 mg	2300 mg	282 mg	2.03
50 lb	2	-3314 mg	-34 mg	2300 mg	282 mg	2.03
50 lb	4	-9644 mg	51 mg	2300 mg	282 mg	2.03
50 lb	4	-1394 mg	-9 mg	2300 mg	282 mg	2.03
50 lb	5	-679 mg	-679 mg	2300 mg	282 mg	2.03
50 lb	5	-2294 mg	-39 mg	2300 mg	282 mg	2.03
50 lb	6	851 mg	851 mg	2300 mg	282 mg	2.03
50 lb	7	1011 mg	1011 mg	2300 mg	282 mg	2.03
50 lb	8	-2469 mg	1 mg	2300 mg	282 mg	2.03
50 lb	9	-1289 mg	-39 mg	2300 mg	282 mg	2.03
50 lb	10	-3824 mg	161 mg	2300 mg	282 mg	2.03
50 lb	11	-3899 mg	201 mg	2300 mg	282 mg	2.03
50 lb	12	436 mg	421 mg	2300 mg	282 mg	2.03
50 lb	13	-1324 mg	-59 mg	2300 mg	282 mg	2.03
50 lb	16	-539 mg	-539 mg	2300 mg	282 mg	2.03
50 lb	17	-594 mg	-594 mg	2300 mg	282 mg	2.03
50 lb	18	-1309 mg	-9 mg	2300 mg	282 mg	2.03
50 lb	19	-1954 mg	-29 mg	2300 mg	282 mg	2.03
50 lb	20	-109 mg	-109 mg	2300 mg	282 mg	2.03
50 lb	20	-2414 mg	56 mg	2300 mg	282 mg	2.03


Ron Peterson, Metrologist

01/24/2018
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:	Prairie Scale Systems INC (Unit 539)	Report Number:	MP3767
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/22/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/23/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.2
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	47.3%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	716.0

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

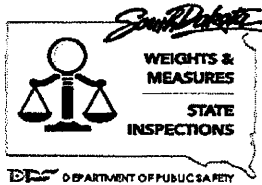
Standards Used: SD Lab Working Standards.

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.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	21	2691 mg	51 mg	2300 mg	282 mg	2.03
50 lb	22	-5839 mg	301 mg	2300 mg	282 mg	2.03
50 lb	23	-2379 mg	-29 mg	2300 mg	282 mg	2.03
50 lb	24	4806 mg	26 mg	2300 mg	282 mg	2.03
50 lb	25	-2529 mg	81 mg	2300 mg	282 mg	2.03
50 lb	26	-2499 mg	236 mg	2300 mg	282 mg	2.03
50 lb	27	4831 mg	-14 mg	2300 mg	282 mg	2.03
50 lb	28	-1919 mg	21 mg	2300 mg	282 mg	2.03
50 lb	30	141 mg	141 mg	2300 mg	282 mg	2.03
50 lb	31	581 mg	581 mg	2300 mg	282 mg	2.03
50 lb	32	-2049 mg	11 mg	2300 mg	282 mg	2.03
50 lb	33	-4669 mg	656 mg	2300 mg	282 mg	2.03
50 lb	34	1606 mg	106 mg	2300 mg	282 mg	2.03
50 lb	35	-624 mg	-624 mg	2300 mg	282 mg	2.03
50 lb	36	-229 mg	-229 mg	2300 mg	282 mg	2.03
50 lb	37	566 mg	566 mg	2300 mg	282 mg	2.03
50 lb	38	421 mg	421 mg	2300 mg	282 mg	2.03
50 lb	39	1771 mg	71 mg	2300 mg	282 mg	2.03
50 lb	58	1691 mg	1 mg	2300 mg	282 mg	2.03
50 lb	17872-1	-464 mg	-464 mg	2300 mg	282 mg	2.03


Ron Peterson, Metrologist

01/24/2018
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:	Prairie Scale Systems INC (Unit 539)	Report Number:	MP3767
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/22/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/23/18
Artifacts Submitted	20 lb weight	Condition of Weights:	GOOD
		Temperature (c):	21.2
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	47.3%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	716.0

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

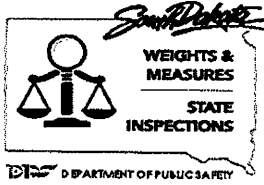
Standards Used: SD Lab Working Standards.

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.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
20 lb	65XC	-687 mg	33 mg	910 mg	90 mg	2.05


Ron Peterson, Metrologist

01/24/2018
Date of Report



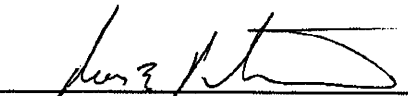
South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab
 Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
 Office: 118 West Capitol Avenue Phone: 605-773-3697
 Pierre SD 57501

Submitted by:	Prairie Scale Systems INC (Unit 539)	Report Number:	MP3767
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/22/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/24/18
Artifacts Submitted	22 piece Avoirdupois weight kit SN 150105A	Condition of Weights:	GOOD
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	20.9
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity:	49.6
		Pressure (mm/Hg):	717.1

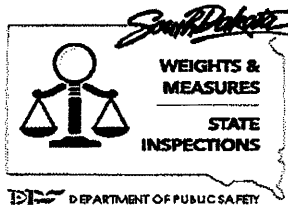
Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.
 Standards Used: SD Lab Working Standards.

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.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	1	5 mg	5 mg	230 mg	30 mg	2.17
5 lb	2	-54 mg	-54 mg	230 mg	30 mg	2.17
5 lb	3	35 mg	35 mg	230 mg	30 mg	2.17
5 lb	4	2 mg	2 mg	230 mg	30 mg	2.17
5 lb	5	-21 mg	-21 mg	230 mg	30 mg	2.17
1 lb	6	-7.4 mg	-7.4 mg	70 mg	9.2 mg	2.18
1 lb	7	-0.4 mg	-0.4 mg	70 mg	9.2 mg	2.18
1 lb	8	26.6 mg	26.6 mg	70 mg	9.2 mg	2.18
1 lb	9	8.6 mg	8.6 mg	70 mg	9.2 mg	2.18
1 lb	10	-0.4 mg	-0.4 mg	70 mg	9.2 mg	2.18
0.5 lb		-11.9 mg	-11.9 mg	45 mg	6.0 mg	2.17
0.2 lb	12	1.8 mg	1.8 mg	18 mg	2.3 mg	2.17
0.2 lb	13	-2.3 mg	-2.3 mg	18 mg	2.3 mg	2.17
0.1 lb	14	4.9 mg	4.9 mg	9.1 mg	1.2 mg	2.17
0.05 lb		3.7 mg	3.7 mg	4.5 mg	0.6 mg	2.17
0.02 lb		1.35 mg	1.35 mg	1.8 mg	0.23 mg	2.17
0.02 lb		0.62 mg	0.62 mg	1.8 mg	0.23 mg	2.17
0.01 lb		0.81 mg	0.81 mg	1.5 mg	0.19 mg	2.17
0.005 lb		0.63 mg	0.63 mg	1.2 mg	0.16 mg	2.13
0.002 lb		0.40 mg	0.40 mg	0.87 mg	0.11 mg	2.13
0.002 lb		0.69 mg	0.69 mg	0.87 mg	0.11 mg	2.13
0.001 lb		0.51 mg	0.51 mg	0.7 mg	0.09 mg	2.13


 Ron Peterson, Metrologist

01/24/2018
 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: MP3768
DATE OF REPORT: 01/30/2018
DATE RECEIVED: 01/29/2018
DATE OF TEST: 01/29-30/2018

Submitted By: Prairie Scale Systems INC (Unit 950)
Contact: Cooper Anderson
Mailing Address: 7805 112th Ave S PO Box 69
City, State, Zip: Horace, ND 58047
Phone: 701-281-9373
S/A Number: 131

Standards Submitted:

2 - 4000 lb weight carts	40 - 50 lb weights
8 - 1000 lb weights	1 - 20 lb weight
2 - 1000 lb baskets	1 - 16 piece metric kit
	1 - 19 piece avoirdupois kit

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.

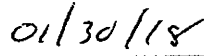
Traceability statement:

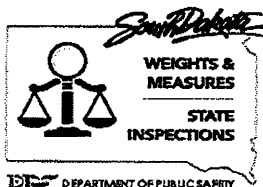
The Standards of the SD Metrology Laboratory used for comparison are traceable to the International System of Units (SI) through the National Institute of Standards and Technology. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability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

Submitted by:	Prairie Scale Systems INC (Unit 950)	Report Number:	MP3768
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/29/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/30/18
Manufacturer:	Prairie Scale Systems INC	Condition of Cart:	GOOD
Serial Number:	PSS-13-C2-4K	Temperature (c):	20.0
Test Method Used:	SOP 33 Calibrations of Weight Carts, Jan 2016	Humidity:	21.7%
Nominal (lb):	4000	Pressure (mm/Hg):	706.9
Tolerance (lb):	1.25		

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

As Found (lb)	As Left (lb)	Uncertainty-lb. (k=)
5.78	0.38	0.28

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.

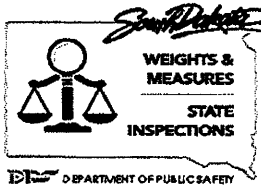
The above weight cart was compared with standards of the State of South Dakota, which are traceable the National Institute of Standards and Technology(NIST) Weights and Measures Division. The assigned test number provides documented evidence for measurement traceability.



 Ron Peterson, Metrologist

01/30/2018

 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:	Prairie Scale Systems INC (Unit 950)	Report Number:	MP3768
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/29/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/30/18
Manufacturer:	Prairie Scale Systems INC	Condition of Cart:	GOOD
Serial Number:	PSS-13-C1-4K	Temperature (c):	20.0
Test Method Used:	SOP 33 Calibrations of Weight Carts, Jan 2016	Humidity:	21.7%
Nominal (lb):	4000	Pressure (mm/Hg):	706.9
Tolerance (lb):	1.25		

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

As Found (lb)	As Left (lb)	Uncertainty-lb. (k=)
5.56	-0.04	0.28

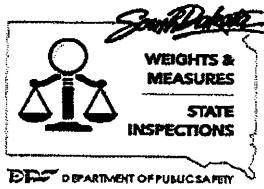
The weight cart was allowed to come to environmental equilibrium in the laboratory prior to calibration. The weight cart was adjusted, as needed and noted above, as close as possible to zero error. All fluid levels must be maintained as close to reference levels as possible during use. Any maintenance,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

01/30/2018
 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:	Prairie Scale Systems INC (Unit 950)	Report Number:	MP3768
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/29/18
City, State, Zip:	Horace, ND 58047	01/23/2018	01/30/18
Artifacts Submitted	1000 lb weights and baskets	Condition of Weights:	GOOD
		Temperature (c):	20.9
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	50.4
Equipment Used:	Russell Balance/ Vaisala PTU301	Pressure (mm/Hg):	707

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.

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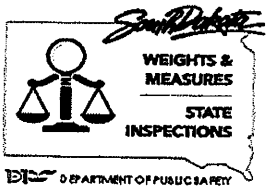
Nominal	Serial Number	Correction As Found		Correction As Left		Tolerance	Uncertainty	k
1000 lb	1k-11	-0.044 lb	-19.8 g	-0.044 lb	-19.8 g	45 g	5.9 g	2.04
1000 lb	1k-12	-0.077 lb	-34.8 g	0.000 lb	-0.1 g	45 g	5.9 g	2.04
1000 lb	1k-13	-0.024 lb	-11.0 g	-0.024 lb	-11.0 g	45 g	5.9 g	2.04
1000 lb	1k-14	-0.089 lb	-40.5 g	-0.001 lb	-0.4 g	45 g	5.9 g	2.04
1000 lb	1k-15	0.001 lb	0.5 g	0.001 lb	0.5 g	45 g	5.9 g	2.04
1000 lb	1k-16	-0.071 lb	-32.0 g	-0.003 lb	-1.4 g	45 g	5.9 g	2.04
1000 lb	1k-17	-0.045 lb	-20.3 g	-0.045 lb	-20.3 g	45 g	5.9 g	2.04
1000 lb	1k-18	-0.002 lb	-0.8 g	-0.002 lb	-0.8 g	45 g	5.9 g	2.04
1000 lb	PSS-13-B1-1k	-0.730 lb	-331.3 g	0.000 lb	0.0 g	45 g	5.9 g	2.04
1000 lb	PSS-13-B2-1k	-0.443 lb	-200.8 g	-0.004 lb	-1.9 g	45 g	5.9 g	2.04


Ron Peterson, Metrologist

01/30/2018
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

Submitted by:	Prairie Scale Systems INC (Unit 950)	Report Number:	MP3768
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/29/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/30/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.8
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	48.7%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	709.2

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

Standards Used: SD Lab Working Standards.

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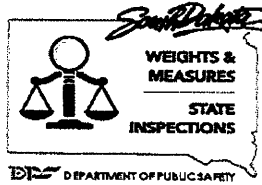
Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	13	3901 mg	231 mg	2300 mg	282 mg	2.03
50 lb	40	3016 mg	6 mg	2300 mg	282 mg	2.03
50 lb	41	5911 mg	181 mg	2300 mg	282 mg	2.03
50 lb	43	6636 mg	281 mg	2300 mg	282 mg	2.03
50 lb	45	4236 mg	131 mg	2300 mg	282 mg	2.03
50 lb	46	5711 mg	91 mg	2300 mg	282 mg	2.03
50 lb	47	596 mg	596 mg	2300 mg	282 mg	2.03
50 lb	49	6396 mg	86 mg	2300 mg	282 mg	2.03
50 lb	50	3461 mg	161 mg	2300 mg	282 mg	2.03
50 lb	51	4531 mg	96 mg	2300 mg	282 mg	2.03
50 lb	52	5761 mg	56 mg	2300 mg	282 mg	2.03
50 lb	53	4381 mg	11 mg	2300 mg	282 mg	2.03
50 lb	54	2946 mg	41 mg	2300 mg	282 mg	2.03
50 lb	55	7791 mg	-24 mg	2300 mg	282 mg	2.03
50 lb	56	7386 mg	-29 mg	2300 mg	282 mg	2.03
50 lb	57	5506 mg	11 mg	2300 mg	282 mg	2.03
50 lb	59	6876 mg	-9 mg	2300 mg	282 mg	2.03
50 lb	60	3906 mg	266 mg	2300 mg	282 mg	2.03
50 lb	61	4036 mg	21 mg	2300 mg	282 mg	2.03
50 lb	62	4441 mg	-29 mg	2300 mg	282 mg	2.03
50 lb	63	3096 mg	-44 mg	2300 mg	282 mg	2.03
50 lb	73	6421 mg	86 mg	2300 mg	282 mg	2.03
50 lb	77	4961 mg	76 mg	2300 mg	282 mg	2.03


 Ron Peterson, Metrologist

01/30/2018
 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

Submitted by:	Prairie Scale Systems INC (Unit 950)	Report Number:	MP3768
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/29/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/30/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.8
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	48.7%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	709.2

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

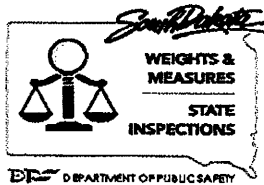
Standards Used: SD Lab Working Standards.

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.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	17872-1	6041 mg	116 mg	2300 mg	282 mg	2.03
50 lb	17873-1	2836 mg	91 mg	2300 mg	282 mg	2.03
50 lb	17875-1	5876 mg	66 mg	2300 mg	282 mg	2.03
50 lb	17876-1	3771 mg	-24 mg	2300 mg	282 mg	2.03
50 lb	17877-1	4861 mg	116 mg	2300 mg	282 mg	2.03
50 lb	17878-1	1761 mg	-19 mg	2300 mg	282 mg	2.03
50 lb	17879-1	3416 mg	56 mg	2300 mg	282 mg	2.03
50 lb	17880-1	6516 mg	226 mg	2300 mg	282 mg	2.03
50 lb	17881-1	4971 mg	11 mg	2300 mg	282 mg	2.03
50 lb	17882-1	2156 mg	1 mg	2300 mg	282 mg	2.03
50 lb	17883-1	3296 mg	31 mg	2300 mg	282 mg	2.03
50 lb	17885-1	2431 mg	136 mg	2300 mg	282 mg	2.03
50 lb	17886-1	3911 mg	241 mg	2300 mg	282 mg	2.03
50 lb	17887-1	3736 mg	56 mg	2300 mg	282 mg	2.03
50 lb	17888-1	4851 mg	-24 mg	2300 mg	282 mg	2.03
50 lb	17889-1	2836 mg	-29 mg	2300 mg	282 mg	2.03
50 lb	17891-1	4076 mg	96 mg	2300 mg	282 mg	2.03


 Ron Peterson, Metrologist

01/30/2018
 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:	Prairie Scale Systems INC (Unit 950)	Report Number:	MP3768
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/29/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/30/18
Artifacts Submitted	20 lb weight	Condition of Weights:	GOOD
		Temperature (c):	21.8
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	48.7%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	709.2

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

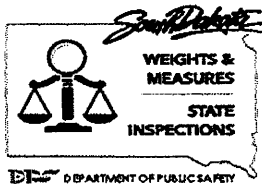
Standards Used: SD Lab Working Standards.

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Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
20 lb	17905-1	-222 mg	-222 mg	910 mg	90 mg	2.05


Ron Peterson, Metrologist

01/30/2018
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:	Prairie Scale Systems INC (Unit 950)	Report Number:	MP3768
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/29/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/29/18
Artifacts Submitted	19 piece Avoirdupois weight kit	Condition of Weights:	GOOD
	SN 5FXO	Temperature (c):	21.7
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	49.6
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Valsala PTU301	Pressure (mm/Hg):	722.7

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

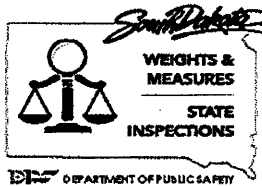
Standards Used: SD Lab Working Standards.

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.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	A	70 mg	70 mg	230 mg	30 mg	2.17
5 lb	B	64 mg	64 mg	230 mg	30 mg	2.17
5 lb	C	111 mg	111 mg	230 mg	30 mg	2.17
5 lb	D	70 mg	70 mg	230 mg	30 mg	2.17
5 lb	E	62 mg	62 mg	230 mg	30 mg	2.17
1 lb	A	25.6 mg	25.6 mg	70 mg	9.2 mg	2.18
1 lb	B	25.6 mg	25.6 mg	70 mg	9.2 mg	2.18
1 lb	C	26.6 mg	26.6 mg	70 mg	9.2 mg	2.18
1 lb	D	25.6 mg	25.6 mg	70 mg	9.2 mg	2.18
1 lb	E	25.6 mg	25.6 mg	70 mg	9.2 mg	2.18
8 oz		21.1 mg	21.1 mg	45 mg	6.0 mg	2.17
4 oz		7.7 mg	7.7 mg	23 mg	3.0 mg	2.17
2 oz		4.1 mg	4.1 mg	11 mg	1.4 mg	2.17
1 oz		2.37 mg	2.37 mg	5.4 mg	0.69 mg	2.17
1/2 oz		0.58 mg	0.58 mg	2.8 mg	0.36 mg	2.17
0.2 oz		0.73 mg	0.73 mg	1.6 mg	0.21 mg	2.17
0.2 oz		0.54 mg	0.54 mg	1.6 mg	0.21 mg	2.17
0.1 oz		0.43 mg	0.43 mg	1.3 mg	0.17 mg	2.17
0.05 oz		0.21 mg	0.21 mg	1 mg	0.13 mg	2.17


Ron Peterson, Metrologist

01/30/2018
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:	Prairie Scale Systems INC (Unit 950)	Report Number:	MP3768
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/29/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/29/18
Artifacts Submitted	16 piece Metric kit	Condition of Weights:	GOOD
	SN H95	Temperature (c):	21.7
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	49.6
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Pressure (mm/Hg):	722.7

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

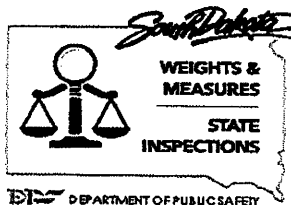
Standards Used: SD Lab Working Standards.

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.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
1 kg		-39 mg	39 mg	100 mg	13 mg	2.18
500 g		37 mg	37 mg	70 mg	9 mg	2.18
200 g		16.6 mg	16.6 mg	40 mg	5.2 mg	2.18
200 g		14.5 mg	14.5 mg	40 mg	5.2 mg	2.18
100 g		4.3 mg	4.3 mg	20 mg	2.6 mg	2.17
50 g		1.5 mg	1.5 mg	10 mg	1.3 mg	2.17
20 g		1.68 mg	1.68 mg	4 mg	0.52 mg	2.17
20 g		0.93 mg	0.93 mg	4 mg	0.52 mg	2.17
10 g		-0.05 mg	-0.05 mg	2 mg	0.26 mg	2.17
5 g		0.50 mg	0.50 mg	1.5 mg	0.19 mg	2.17
2 g		0.41 mg	0.41 mg	1.1 mg	0.15 mg	2.17
2 g		0.36 mg	0.36 mg	1.1 mg	0.15 mg	2.17
1 g		0.38 mg	0.38 mg	0.9 mg	0.12 mg	2.17
500 mg		0.379 mg	0.379 mg	0.72 mg	0.091 mg	2.13
200 mg		0.272 mg	0.272 mg	0.54 mg	0.069 mg	2.13
20 mg		0.127 mg	0.127 mg	0.26 mg	0.036 mg	2.13


Ron Peterson, Metrologist

01/30/2018
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: MP3769
DATE OF REPORT: 01/30/2018
DATE RECEIVED: 01/29/2018
DATE OF TEST: 01/29-31/2018

Submitted By: Prairie Scale Systems INC (Shop)
Contact: Cooper Anderson
Mailing Address: 7805 112th Ave S PO Box 69
City, State, Zip: Horace, ND 58047
Phone: 701-281-9373
S/A Number: 131

Standards Submitted:

20 - 50 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:

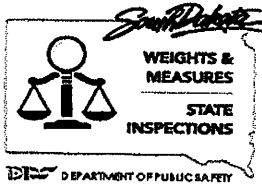
The Standards of the SD Metrology Laboratory used for comparison are traceable to the International System of Units (SI) through the National Institute of Standards and Technology. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability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



01/30/18
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

Submitted by:	Prairie Scale Systems INC (Shop)	Report Number:	MP3769
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/29/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/30/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.8
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	48.7%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	709.2

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

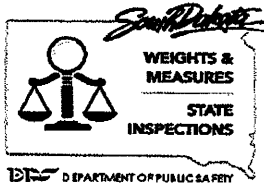
Standards Used: SD Lab Working Standards.

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.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	15	-199 mg	-199 mg	2300 mg	282 mg	2.03
50 lb	42	-469 mg	-469 mg	2300 mg	282 mg	2.03
50 lb	44	-414 mg	-414 mg	2300 mg	282 mg	2.03
50 lb	64	826 mg	826 mg	2300 mg	282 mg	2.03
50 lb	65	-684 mg	-684 mg	2300 mg	282 mg	2.03
50 lb	66	-694 mg	-694 mg	2300 mg	282 mg	2.03
50 lb	68	51 mg	51 mg	2300 mg	282 mg	2.03
50 lb	69	-159 mg	-159 mg	2300 mg	282 mg	2.03
50 lb	70	-664 mg	-664 mg	2300 mg	282 mg	2.03
50 lb	71	21 mg	21 mg	2300 mg	282 mg	2.03
50 lb	72	-239 mg	-239 mg	2300 mg	282 mg	2.03
50 lb	74	-824 mg	-824 mg	2300 mg	282 mg	2.03
50 lb	75	-29 mg	-29 mg	2300 mg	282 mg	2.03
50 lb	76	-74 mg	-74 mg	2300 mg	282 mg	2.03
50 lb	78	-264 mg	-264 mg	2300 mg	282 mg	2.03
50 lb	79	7286 mg	31 mg	2300 mg	282 mg	2.03
50 lb	80	-354 mg	-354 mg	2300 mg	282 mg	2.03
50 lb	17886-1	551 mg	551 mg	2300 mg	282 mg	2.03
50 lb	66A1	-19 mg	-19 mg	2300 mg	282 mg	2.03
50 lb	66AJ	-414 mg	-414 mg	2300 mg	282 mg	2.03


Ron Peterson, Metrologist

01/30/2018
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:	Prairie Scale Systems INC (Shop)	Report Number:	MP3769
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	01/29/18
City, State, Zip:	Horace, ND 58047	Date tested:	01/23/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.2
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	47.3%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	716.0

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

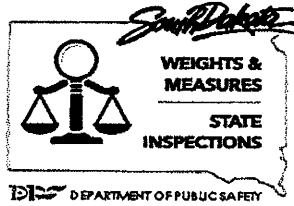
Standards Used: SD Lab Working Standards.

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.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	21	2691 mg	51 mg	2300 mg	282 mg	2.03
50 lb	22	-5839 mg	301 mg	2300 mg	282 mg	2.03
50 lb	23	-2379 mg	-29 mg	2300 mg	282 mg	2.03
50 lb	24	4806 mg	26 mg	2300 mg	282 mg	2.03
50 lb	25	-2529 mg	81 mg	2300 mg	282 mg	2.03
50 lb	26	-2499 mg	236 mg	2300 mg	282 mg	2.03
50 lb	27	4831 mg	-14 mg	2300 mg	282 mg	2.03
50 lb	28	-1919 mg	21 mg	2300 mg	282 mg	2.03
50 lb	30	141 mg	141 mg	2300 mg	282 mg	2.03
50 lb	31	581 mg	581 mg	2300 mg	282 mg	2.03
50 lb	32	-2049 mg	11 mg	2300 mg	282 mg	2.03
50 lb	33	-4669 mg	656 mg	2300 mg	282 mg	2.03
50 lb	34	1606 mg	106 mg	2300 mg	282 mg	2.03
50 lb	35	-624 mg	-624 mg	2300 mg	282 mg	2.03
50 lb	36	-229 mg	-229 mg	2300 mg	282 mg	2.03
50 lb	37	566 mg	566 mg	2300 mg	282 mg	2.03
50 lb	38	421 mg	421 mg	2300 mg	282 mg	2.03
50 lb	39	1771 mg	71 mg	2300 mg	282 mg	2.03
50 lb	58	1691 mg	1 mg	2300 mg	282 mg	2.03
50 lb	17872-1	-464 mg	-464 mg	2300 mg	282 mg	2.03


Ron Peterson, Metrologist

01/30/2018
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: MP3771
DATE OF REPORT: 02/07/2018
DATE RECEIVED: 02/05/2018
DATE OF TEST: 02/06/2018

Submitted By: Prairie Scale Systems INC (Unit 739)
Contact: Cooper Anderson
Mailing Address: 7805 112th Ave S PO Box 69
City, State, Zip: Horace, ND 58047
Phone: 701-281-9373
S/A Number: 131

Standards Submitted:

2 - 4000 lb weight carts	40 - 50 lb weights
8 - 1000 lb weights	1 - 20 lb weight
2 - 1000 lb baskets	1 - 14 piece metric kit
	1 - 22 piece avoirdupois kit

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.

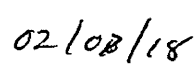
Traceability statement:

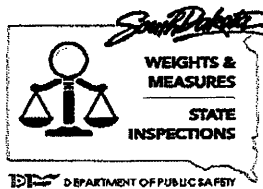
The Standards of the SD Metrology Laboratory used for comparison are traceable to the International System of Units (SI) through the National Institute of Standards and Technology. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability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

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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

Submitted by:	Prairie Scale Systems INC (Unit 739)	Report Number:	MP3771
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	02/05/18
City, State, Zip:	Horace, ND 58047	Date tested:	02/06/18
Manufacturer:	Prairie Scale Systems INC	Condition of Cart:	GOOD
Serial Number:	PSS-16-C1-4K	Temperature (c):	20.0
Test Method Used:	SOP 33 Calibrations of Weight Carts, Jan 2016	Humidity:	21.7%
Nominal (lb):	4000	Pressure (mm/Hg):	717.0
Tolerance (lb):	1.25		

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

As Found (lb)	As Left (lb)	Uncertainty-lb. (k=)
3.95	0.03	0.28

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.

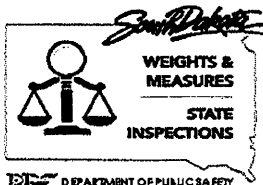
The above weight cart was compared with standards of the State of South Dakota, which are traceable the National Institute of Standards and Technology(NIST) Weights and Measures Division. The assigned test number provides documented evidence for measurement traceability.



 Ron Peterson, Metrologist

02/07/2018

 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:	Prairie Scale Systems INC (Unit 739)	Report Number:	MP3771
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	02/05/18
City, State, Zip:	Horace, ND 58047	Date tested:	02/06/18
Manufacturer:	Prairie Scale Systems INC	Condition of Cart:	GOOD
Serial Number:	PSS-13-C1-4K	Temperature (c):	20.0
Test Method Used:	SOP 33 Calibrations of Weight Carts, Jan 2016	Humidity:	21.7%
Nominal (lb):	4000	Pressure (mm/Hg):	706.9
Tolerance (lb):	1.25		

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

As Found (lb)	As Left (lb)	Uncertainty-lb. (k=)
4.20	0.05	0.28

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.

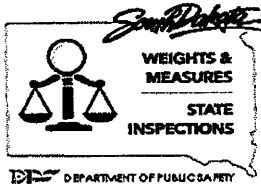
The above weight cart was compared with standards of the State of South Dakota, which are traceable the National Institute of Standards and Technology(NIST) Weights and Measures Division. The assigned test number provides documented evidence for measurement traceability.



 Ron Peterson, Metrologist

02/07/2018

 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:	Prairie Scale Systems INC (Unit 739)	Report Number:	MP3771
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	02/05/18
City, State, Zip:	Horace, ND 58047	01/23/2018	02/06/18
Artifacts Submitted	1000 lb weights and baskets	Condition of Weights:	GOOD
		Temperature (c):	21.4
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	46
Equipment Used:	Russell Balance/ Vaisala PTU301	Pressure (mm/Hg):	719

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

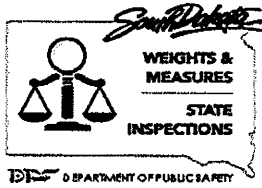
Standards Used: SD Lab 1000 lb and/or 500 lb Working Standards.

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Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
1000 lb	1K-19	0.071 lb 32.4 g	0.071 lb 32.4 g	45 g	5.9 g	2.04
1000 lb	1K-20	0.094 lb 42.6 g	0.003 lb 1.3 g	45 g	5.9 g	2.04
1000 lb	1K-21	0.039 lb 17.9 g	0.039 lb 17.9 g	45 g	5.9 g	2.04
1000 lb	1K-22	0.088 lb 39.8 g	0.001 lb 0.6 g	45 g	5.9 g	2.04
1000 lb	1K-23	0.119 lb 54.2 g	-0.006 lb -2.7 g	45 g	5.9 g	2.04
1000 lb	1K-24	0.015 lb 7.0 g	0.015 lb 7.0 g	45 g	5.9 g	2.04
1000 lb	1K-25	0.050 lb 22.7 g	0.050 lb 22.7 g	45 g	5.9 g	2.04
1000 lb	1K-26	0.055 lb 24.8 g	0.055 lb 24.8 g	45 g	5.9 g	2.04
1000 lb	PSS-16-B1-1K	0.567 lb 257.1 g	0.005 lb 2.2 g	45 g	5.9 g	2.04
1000 lb	PSS-16-B2-1K	0.485 lb 219.8 g	0.005 lb 2.2 g	45 g	5.9 g	2.04


 Ron Peterson, Metrologist

02/07/2018
 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:	Prairie Scale Systems INC (Unit 739)	Report Number:	MP3771
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	02/05/18
City, State, Zip:	Horace, ND 58047	Date tested:	02/06/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.8
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	46.1%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	719.6

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

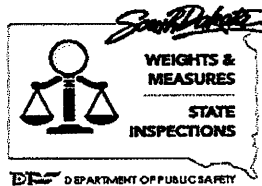
Standards Used: SD Lab Working Standards.

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Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	66A6	4426 mg	306 mg	2300 mg	282 mg	2.03
50 lb	66A7	6766 mg	46 mg	2300 mg	282 mg	2.03
50 lb	66A8	12211 mg	1 mg	2300 mg	282 mg	2.03
50 lb	66A9	10021 mg	71 mg	2300 mg	282 mg	2.03
50 lb	66A9	4611 mg	86 mg	2300 mg	282 mg	2.03
50 lb	66AA	9601 mg	6 mg	2300 mg	282 mg	2.03
50 lb	66AB	7581 mg	86 mg	2300 mg	282 mg	2.03
50 lb	66AC	10841 mg	1 mg	2300 mg	282 mg	2.03
50 lb	66AD	7061 mg	146 mg	2300 mg	282 mg	2.03
50 lb	66AE	10831 mg	1 mg	2300 mg	282 mg	2.03
50 lb	66AF	11576 mg	71 mg	2300 mg	282 mg	2.03
50 lb	66AG	6061 mg	31 mg	2300 mg	282 mg	2.03
50 lb	66AH	11431 mg	211 mg	2300 mg	282 mg	2.03
50 lb	66AK	7901 mg	-4 mg	2300 mg	282 mg	2.03
50 lb	66AL	8836 mg	-34 mg	2300 mg	282 mg	2.03
50 lb	66AM	6721 mg	-9 mg	2300 mg	282 mg	2.03
50 lb	66AN	11216 mg	71 mg	2300 mg	282 mg	2.03
50 lb	66AO	7821 mg	-29 mg	2300 mg	282 mg	2.03
50 lb	66AP	9381 mg	51 mg	2300 mg	282 mg	2.03
50 lb	66AR	5656 mg	-29 mg	2300 mg	282 mg	2.03
50 lb	66AS	3441 mg	11 mg	2300 mg	282 mg	2.03
50 lb	66AT	8591 mg	276 mg	2300 mg	282 mg	2.03
50 lb	66AU	-189 mg	-189 mg	2300 mg	282 mg	2.03


Ron Peterson, Metrologist

02/07/2018
Date of Report



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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:	Prairie Scale Systems INC (Unit 739)	Report Number:	MP3771
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	02/05/18
City, State, Zip:	Horace, ND 58047	Date tested:	02/06/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.8
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	46.1%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	719.6

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

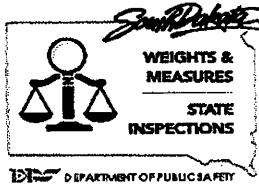
Standards Used: SD Lab Working Standards.

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.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	66AV	9631 mg	51 mg	2300 mg	282 mg	2.03
50 lb	66AW	7881 mg	261 mg	2300 mg	282 mg	2.03
50 lb	66AX	10156 mg	46 mg	2300 mg	282 mg	2.03
50 lb	66AY	9336 mg	41 mg	2300 mg	282 mg	2.03
50 lb	66B1	8486 mg	141 mg	2300 mg	282 mg	2.03
50 lb	66B3	12271 mg	16 mg	2300 mg	282 mg	2.03
50 lb	66B4	7886 mg	-29 mg	2300 mg	282 mg	2.03
50 lb	66B5	6306 mg	266 mg	2300 mg	282 mg	2.03
50 lb	66B6	9801 mg	31 mg	2300 mg	282 mg	2.03
50 lb	66B7	8671 mg	106 mg	2300 mg	282 mg	2.03
50 lb	66B8	6476 mg	41 mg	2300 mg	282 mg	2.03
50 lb	66BA	8841 mg	6 mg	2300 mg	282 mg	2.03
50 lb	66BB	9706 mg	-9 mg	2300 mg	282 mg	2.03
50 lb	66BC	8631 mg	156 mg	2300 mg	282 mg	2.03
50 lb	66BO	8601 mg	51 mg	2300 mg	282 mg	2.03
50 lb	66BZ	11996 mg	61 mg	2300 mg	282 mg	2.03
50 lb	66ZA	8971 mg	-4 mg	2300 mg	282 mg	2.03


Ron Peterson, Metrologist

02/07/2018
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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:	Prairie Scale Systems INC (Unit 739)	Report Number:	MP3771
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	02/05/18
City, State, Zip:	Horace, ND 58047	Date tested:	02/06/18
Artifacts Submitted	20 lb weight	Condition of Weights:	GOOD
		Temperature (c):	21.8
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	46.1%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	719.2

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

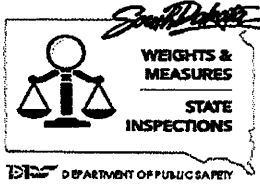
Standards Used: SD Lab Working Standards.

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Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
20 lb	A	38 mg	38 mg	910 mg	90 mg	2.05


Ron Peterson, Metrologist

02/07/2018
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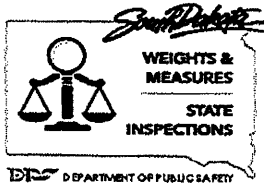
Submitted by:	Prairie Scale Systems INC (Unit 739)	Report Number:	MP3771
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	02/05/18
City, State, Zip:	Horace, ND 58047	Date tested:	02/06/18
Artifacts Submitted	22 piece Avoirdupois weight kit SN 739	Condition of Weights:	GOOD
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	21.2
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity:	42.6
		Pressure (mm/Hg):	720.4

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.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	1	79 mg	79 mg	230 mg	30 mg	2.17
5 lb	2	74 mg	74 mg	230 mg	30 mg	2.17
5 lb	3	76 mg	76 mg	230 mg	30 mg	2.17
5 lb	4	77 mg	77 mg	230 mg	30 mg	2.17
5 lb	5	74 mg	74 mg	230 mg	30 mg	2.17
1 lb	1	28.6 mg	28.6 mg	70 mg	9.2 mg	2.18
1 lb	2	23.6 mg	23.6 mg	70 mg	9.2 mg	2.18
1 lb	3	19.6 mg	19.6 mg	70 mg	9.2 mg	2.18
1 lb	4	13.6 mg	13.6 mg	70 mg	9.2 mg	2.18
1 lb	5	25.6 mg	25.6 mg	70 mg	9.2 mg	2.18
0.5 lb		13.1 mg	13.1 mg	45 mg	6.0 mg	2.17
0.2 lb		-1.7 mg	-1.7 mg	18 mg	2.3 mg	2.17
0.2 lb		-14.4 mg	-14.4 mg	18 mg	2.3 mg	2.17
0.1 lb		2.7 mg	2.7 mg	9.1 mg	1.2 mg	2.17
0.05 lb		1.48 mg	1.48 mg	4.5 mg	0.58 mg	2.17
0.02 lb		0.13 mg	0.13 mg	1.8 mg	0.23 mg	2.17
0.02 lb		0.59 mg	0.59 mg	1.8 mg	0.23 mg	2.17
0.01 lb		0.67 mg	0.67 mg	1.5 mg	0.19 mg	2.17
0.005 lb		0.59 mg	0.59 mg	1.2 mg	0.16 mg	2.13
0.002 lb		0.09 mg	0.09 mg	0.87 mg	0.11 mg	2.13
0.002 lb		0.19 mg	0.19 mg	0.87 mg	0.11 mg	2.13
0.001 lb		0.25 mg	0.25 mg	0.7 mg	0.09 mg	2.13


Ron Peterson, Metrologist

02/07/2018
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Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

Submitted by:	Prairie Scale Systems INC (Unit 739)	Report Number:	MP3771
Mailing Address:	7805 112th Ave S PO Box 69	Date Received:	02/05/18
City, State, Zip:	Horace, ND 58047	Date tested:	02/06/18
Artifacts Submitted	14 piece Metric kit	Condition of Weights:	GOOD
	SN 739	Temperature (c):	20.9
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	43.7
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Pressure (mm/Hg):	720

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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Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
1 kg		15 mg	15 mg	100 mg	13 mg	2.18
1 kg		18 mg	18 mg	100 mg	13 mg	2.18
500 g		18.7 mg	18.7 mg	70 mg	9.1 mg	2.18
200 g		17.6 mg	17.6 mg	40 mg	5.2 mg	2.18
200 g		7.9 mg	7.9 mg	40 mg	5.2 mg	2.18
100 g		4.2 mg	4.2 mg	20 mg	2.6 mg	2.17
50 g		3.09 mg	3.09 mg	10 mg	1.28 mg	2.17
20 g		1.32 mg	1.32 mg	4 mg	0.52 mg	2.17
20 g		1.31 mg	1.31 mg	4 mg	0.52 mg	2.17
10 g		0.65 mg	0.65 mg	2 mg	0.26 mg	2.17
5 g		0.49 mg	0.49 mg	1.5 mg	0.19 mg	2.17
2 g		0.44 mg	0.44 mg	1.1 mg	0.15 mg	2.17
2 g		0.48 mg	0.48 mg	1.1 mg	0.15 mg	2.17
1 g		0.224 mg	0.224 mg	0.9 mg	0.118 mg	2.17



Ron Peterson, Metrologist

02/07/2018
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 1 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



2018

Douglas A. Olson

Douglas A. Olson, Chief
NIST Office of Weights and Measures

Effective Dates: 2018-01-01 to 2018-12-31