

17 sheets



APPLICATION FOR REGISTRATION AS A REGISTERED SERVICE COMPANY

Public Service Commission
SFN 51277 (2/2014)

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

Name of Company Mindak Scale LLC		Email Address Brad@MindakScale.com		Application Date	
Mailing Address 9628 Portal Dr.		City Eden Prairie		State MN	Zip Code 5534
Telephone Number 952-944-8916		Cell Phone Number 612-834-5110		Fax Number 952-944-8916	

Select below all device types your company will certify:

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

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

Permit No.	Employee	Device Types Registered to Certify (list using device type numbers from above)
e.g. 1001	e.g. John Doe	e.g. Scales - 2, 3, 6, 8; e.g. Liquid - 1, 2, 6
1435	Bradley S. Zarth	Scales 1, 2, 3, 4, 6, 7,

Continued on Page 2

Application for Registration as a Registered Service Company
Page 2

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

2- 2000 _{lb} WT Carts	Metric wt sets 500g, 2-2000, 1000, 500g
16- 1000 _{lb} Cube wts.	Small Kit 4-8lb, 4lb, 2lb
4- 500 _{lb} Cube wts	
50- 50 _{lb} wts, 3-30 _{lb} , 2-20 _{lb}	
Rice Lake Fractional Kit .001 _{lb} -10 _{lb}	
Mixed Sets 2-500g, 8oz, 1, 3-2, 2-5, 10 _{lb} .	
Troemner gram kit .002-2000g	
Ratio wt Kits, Assorted Tip wts, butt wts, Fractional splits Kits Weiss	

Additional Application Items (initial where appropriate):

Standardized Test Report	<input type="checkbox"/> Copy enclosed
	<input checked="" type="checkbox"/> No change in report filed previously
Tested and Approved Sticker	<input type="checkbox"/> Copy enclosed
	<input checked="" type="checkbox"/> No change in sticker filed previously
Photocopy of Crimped Lead Wire Seal	<input type="checkbox"/> Copy enclosed
	<input checked="" type="checkbox"/> No change in crimped lead wire seal filed previously

Public Company Listing:

Include my company information on your registered service company list for public contact.

Yes No

I am Bradley S. Zarth, 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.

Bradley S. Zarth
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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North Dakota State GovernmentNorth Dakota
SECRETARY

SECRETARY OF STATE NORTH DAKOTA

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MINDAK SCALE, L.L.C.

Corporation Details

System ID: 18199000**Phone:** (952) 944-8916**Type:** FOREIGN LIMITED LIABILITY COMPANY**Status:** Active & Good Standing**Original File Date:** 06/24/2002**Effective Date:** 06/24/2002**State of Origin:** Minnesota

Nature of Business

SALES/SERVICE/MAINTENANCE OF SCALES

Principal Office

9628 PORTAL DR EDEN PRAIRIE, MN 55347-4231

Registered Agent

SEARCH COMPANY OF NORTH DAKOTA LLC

1501 N 12TH ST STE 1

BISMARCK, ND 58501-2713

Established Date: Oct 10, 2008

Generate an Annual Report To File

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

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

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Will open a new window (pop-up).

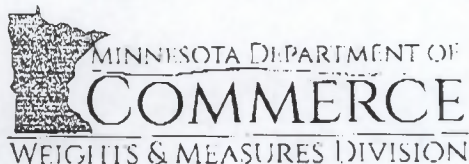
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FROM : MINDAK SCALE

FAX NO. : 9529448917

Sep. 18 2014 12:11PM P1

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14305 SOUTHCROSS DRIVE #150

BURNSVILLE, MN 55306-7008

MN.GOV/COMMERCE/

651.539.1555 FAX 651.539.1553

AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: September 2, 2014
 Test Date: September 9, 2014
 Report Date: September 9, 2014

State Test No.: 333012
 Set Serial No.: Baldor and B & D
 Bar Code: 201440

Calibration Report

MINDAK SCALE SALES & SERVICE
 9628 PORTAL DRIVE
 EDEN PRAIRIE, MN 55347

Contact: BRAD ZARTH
 Phone: 952-944-8916
 PO Number: NONE
 SOP: 12
 Technician ID: 13

Item(s) Submitted: Electric Weight Carts
 Manufacturer: Howe
 ASTM E617 Type: II
 Equipment ID#: None
 Condition: Good
 Temperature: 21.8°C
 Pressure: 734. mmHg
 Relative Humidity: 53. %

Nominal Value	Serial No.	Correction (g)		NIST HB 105-8 Tol		Unc. (g) (k=2)
		As Found	As Left	As Found	As Left	
2000 lb		140	140	Meets	Meets	50
2000 lb		230	80	*	Meets	50

* Weight Cart as found exceeds NIST HB 105-8 tolerance.

When used as a set these weight carts meet NIST HB 105-8 tolerances.

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³. The items listed above have been compared to the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. Uncertainty calculations conform to NIST Technical Note 1297. Results apply to items identified in this report only.

Kari Anderson

Kari Anderson
 Metrologist

Reviewed by:

Mark Nicollet

Mark Nicollet
 Quality Manager

FROM : MINDAK SCALE

FAX NO. : 9529448917

Sep. 18 2014 12:11PM P2

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1405 SOUTH CROSS DRIVE #150
 BURNSVILLE, MN 55306-7008
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 AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: September 2, 2014
 Test Date: September 5, 2014
 Report Date: September 5, 2014

State Test No.: 333013
 Set Serial No.: 1-16
 Bar Code: 201441

Calibration Report

MINDAK SCALE SALES & SERVICE
 9628 PORTAL DRIVE
 EDEN PRAIRIE, MN 55347

Contact: BRAD ZARTH
 Phone: 952-944-8916
 PO Number: NONE
 SOP: 12
 Technician ID: 13

Item(s) Submitted: Cast Cubic Weights
 Manufacturer: Howe, Cardinal, Webb
 ASTM E617 Type: II
 Equipment ID#: None
 Condition: Good
 Temperature: 21.7°C
 Pressure: 740.4 mmHg
 Relative Humidity: 48. %

Nominal Value	Serial No.	Correction (g)		NIST HB105-1 Class		Unc. (g) (k=2)
		As Found	As Left	As Found	As Left	
1000 lb	1	-4	-4	F	F	3.
1000 lb	2	-1	-1	F	F	3.
1000 lb	3	0	0	F	F	3.
1000 lb	4	-14	-14	F	F	3.
1000 lb	5	-21	-21	F	F	3.
1000 lb	6	-31	-31	F	F	3.
1000 lb	7	22	22	F	F	3.
1000 lb	8	13	13	F	F	3.
1000 lb	9	-31	-31	F	F	3.
1000 lb	10	7	7	F	F	3.
1000 lb	11	-32	-32	F	F	3.
1000 lb	12	13	13	F	F	3.
1000 lb	13	-21	-21	F	F	3.
1000 lb	14	-34	-34	F	F	3.
1000 lb	15	-47	3	*	F	3.
1000 lb	16	-31	-31	F	F	3.

* Weight(s) as found exceed NIST HB 105-1 Class F tolerance.

When used as a set these weights meet NIST HB 105-1 class F tolerances.

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³. The items listed above have been compared to the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. Uncertainty calculations conform to NIST Technical Note 1297. Results apply to items identified in this report only.

Kari Anderson

 Metrologist

Reviewed by:
 Mark Nicollet

 Quality Manager

FROM : MINDAK SCALE

FAX NO. : 9529448917

Sep. 18 2014 11:58AM P2



14305 SOUTHCROSS DRIVE #150
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 AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: September 2, 2014
 Test Date: September 2 & 4, 2014
 Report Date: September 4, 2014

State Test No.: 333014
 Set Serial No.: None
 Bar Code: 201412

Calibration Report

MINDAK SCALE SALES & SERVICE
 9628 PORTAL DRIVE
 EDEN PRAIRIE, MN 55347
 Contact: BRAD ZARTH
 Phone: 952-944-8916
 PO Number: NONE
 SOP: 12
 Technician ID: 13

Item(s) Submitted: 500 lb Cast Weights
 Manufacturer: Rice Lake
 ASTM E617 Type: II
 Equipment ID#: None
 Condition: Good
 Temperature: 22.1°C
 Pressure: 734.2 mmHg
 Relative Humidity: 52. %

Kit contents:

Nominal Value	Quantity
500 lb	4

When used as a set, these weights meet NIST Class F.

The items listed above have been compared to the Standards of the State of Minnesota which are currently in control. These Standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. Uncertainty calculation methods conform to NIST Technical Note 1297. Actual uncertainties will be provided upon request. Results apply to items identified in this report only.

Kari Anderson

Kari Anderson
 Metrologist

Reviewed by:

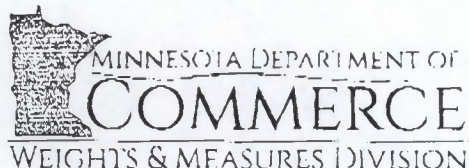
Mark Nicollet

Mark Nicollet
 Quality Manager

FROM : MINDAK SCALE

FAX NO. : 9529448917

Sep. 18 2014 12:01PM P9



12
14305 SOUTHCROSS DRIVE #150
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Receipt Date: September 2, 2014
Test Date: September 10, 2014
Report Date: September 11, 2014

State Test No.: 333025
Set Serial No.: None
Bar Code: 201410

Calibration Report

MINDAK SCALE SALES & SERVICE
9628 PORTAL DRIVE
EDEN PRAIRIE, MN 55347
Contact: BRAD ZARTII
Phone: 952-944-8916
PO Number: NONE
SOP: 12
Technician ID: 07

Item(s) Submitted: Cast Handle Weights
Manufacturer: Howe & Asst Cast
ASTM E617 Type: II
Equipment ID#: None
Condition: Good
Temperature: 22.1°C
Pressure: 736.3 mmHg
Relative Humidity: 46. %

Kit contents:

Nominal Value	Quantity
50 lb	30
30 lb	2
20 lb	1

When used as a set, these weights meet NIST Class F.

The items listed above have been compared to the Standards of the State of Minnesota which are currently in control. These Standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. Uncertainty calculation methods conform to NIST Technical Note 1297. Actual uncertainties will be provided upon request. Results apply to items identified in this report only.

Mark Nicollet

Mark Nicollet
Quality Manager

Reviewed by:
Kari Anderson

Kari Anderson
Metrologist



17
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Receipt Date: September 2, 2014
Test Date: September 11, 2014
Report Date: September 11, 2014

State Test No.: 333108
Set Serial No.: None
Bar Code: 201411

Calibration Report

MINDAK SCALE SALES & SERVICE
9628 PORTAL DRIVE
EDEN PRAIRIE, MN 55347
Contact: BRAD ZARTII
Phone: 952-944-8916
PO Number: NONE
SOP: 12
Technician ID: 07

Item(s) Submitted: Cast Handle Weights
Manufacturer: Asst Cast Mfg
ASTM E617 Type: II
Equipment ID#: None
Condition: Good
Temperature: 21.8°C
Pressure: 743.9 mmHg
Relative Humidity: 37. %

Kit contents:

Nominal Value	Quantity
50 lb	20
30 lb	1
20 lb	1

When used as a set, these weights meet NIST Class F.

The items listed above have been compared to the Standards of the State of Minnesota which are currently in control. These Standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. Uncertainty calculation methods conform to NIST Technical Note 1297. Actual uncertainties will be provided upon request. Results apply to items identified in this report only.

Mark Nicollet

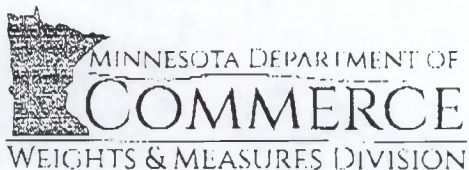
Mark Nicollet
Quality Manager

Reviewed by:

Kari Anderson

Kari Anderson
Metrologist

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14305 SOUTH CROSS DRIVE #150
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Receipt Date: September 2, 2014
 Test Date: September 5, 2014
 Report Date: September 8, 2014

State Test No.: 333015
 Set Serial No.: NONE
 Bar Code: 018653

Calibration Report

MINDAK SCALE SALES & SERVICE
 9628 PORTAL DRIVE
 EDEN PRAIRIE, MN 55347
 Contact: BRAD ZARTH
 Phone: 952-944-8916
 PO Number: NONE
 SOP: 12
 Technician ID: 9

Item(s) Submitted: Mild steel slot weights
 Manufacturer: Unknown
 ASTM E617 Type: II
 Equipment ID#: None
 Condition: Good
 Temperature: 19.8°C
 Pressure: 740.4 mmHg
 Relative Humidity: 48. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
8 lb ***		93.	93.			15.
8 lb ***		152.	152.			15.
8 lb ***		46.	46.			15.
8 lb ***		109.	109.			15.
4 lb ***		-74.	-74.			10.
2 lb		-52.	-52.	7	7	1.

*** Weight(s) are not nominal values. No class tolerances apply.

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³. The items listed above have been compared to the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. Uncertainty calculations conform to NIST Technical Note 1297. Results apply to items identified in this report only.

Heidi Jones

 Laboratory Administrator

Reviewed by:
 Mark Nicolet

 Quality Manager



14305 SOUTHCROSS DRIVE #150
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Receipt Date: September 2, 2014
Test Date: September 5, 2014
Report Date: September 5, 2014

State Test No.: 333016
Set Serial No.: 18272
Bar Code: 201442

Calibration Report

MINDAK SCALE SALES & SERVICE
9628 PORTAL DRIVE
EDEN PRAIRIE, MN 55347
Contact: BRAD ZARTI
Phone: 952-944-8916
PO Number: NONE
SOP: 12
Technician ID: 09

Item(s) Submitted: Metric weight set
Manufacturer: Troemner
ASTM E617 Type: I & II
Equipment ID#: None
Condition: Good
Temperature: 20.4°C
Pressure: 739.5 mmHg
Relative Humidity: 43. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
2000 g		38.	38.	5	5	10.
1000 g		72.	72.	6	6	6.
500 g		16.6	16.6	5	5	4.6
200 g		18.	18.	6	6	1.
200 g		14.	14.	6	6	1.
100 g		-5.86	-5.86	5	5	0.45
50 g		0.81	0.81	4	4	0.25
20 g		-0.02	-0.02	4	4	0.25
20 g		0.95	0.95	5	5	0.25
10 g		-0.08	-0.08	4	4	0.12
5 g		0.03	0.03	4	4	0.1
2 g		-0.01	-0.01	4	4	0.07
2 g		-0.13	-0.13	4	4	0.07
1 g		0.11	0.11	4	4	0.07



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Continued,

Receipt Date: September 2, 2014
 Test Date: September 5, 2014
 Report Date: September 5, 2014

State Test No.: 333016
 Sct Serial No.: 18272
 Bar Code: 201442

Calibration Report

MINDAK SCALE SALES & SERVICE
 9628 PORTAL DRIVE
 EDEN PRAIRIE, MN 55347
 Contact: BRAD ZARTH
 Phone: 952-944-8916
 PO Number: NONE
 SOP: 12
 Technician ID: 09

Item(s) Submitted: Metric weight set
 Manufacturer: Troemner
 ASTM E617 Type: I & II
 Equipment ID#: None
 Condition: Good
 Temperature: 20.4°C
 Pressure: 739.5 mmHg
 Relative Humidity: 43. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
0.5 g		0.28	0.28	5	5	0.07
0.2 g		0.22	0.22	6	6	0.07
0.2 g		0.11	0.11	5	5	0.07
0.1 g		0.22	0.22	6	6	0.07
0.05 g		0.23	0.23	6	6	0.07
0.02 g		0.12	0.12	6	6	0.07
0.02 g		0.02	0.02	5	5	0.07
0.01 g		0.05	0.05	6	6	0.07
0.005 g		0.038	0.038	4	4	0.015
0.002 g		0.007	0.007	4	4	0.015

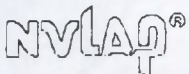
The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³. The items listed above have been compared to the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. Uncertainty calculations conform to NIST Technical Note 1297. Results apply to items identified in this report only.

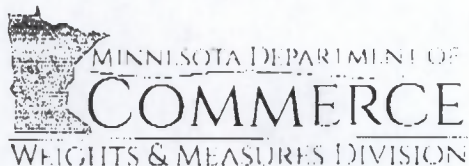
Heidi Jones

 Laboratory Administrator

Reviewed by:
 Mark Nicolle

 Quality Manager





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9

Receipt Date: September 2, 2014
 Test Date: September 5 & 9, 2014
 Report Date: September 9, 2014

State Test No.: 333017
 Set Serial No.: NONE
 Bar Code: 018633

Calibration Report

MINDAK SCALE SALES & SERVICE
 9628 PORTAL DRIVE
 EDEN PRAIRIE, MN 55347
 Contact: BRAD ZARTH
 Phone: 952-944-8916
 PO Number: NONE
 SOP: 12
 Technician ID: 9

Item(s) Submitted: Avdp. weight set
 Manufacturer: WEISS
 ASTM E617 Type: II
 Equipment ID#: None
 Condition: Good
 Temperature: 20.1°C
 Pressure: 736.3 mmHg
 Relative Humidity: 49. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
3 lb		-24.	-24.	5	5	6.
2 lb		-40.	-40.	6	6	6.
1 lb		-24.	-24.	7	7	6.
0.5 lb		5.	5.	5	5	6.
1/4 lb		-0.52	-0.52	4	4	0.07
1 lb	hook	24.	24.	7	7	6.
2/5 lb		-12.6	-12.6	7	7	0.07
1/3 lb		-8.79	-8.79	6	6	0.07
1/3 lb		-9.76	-9.76	6	6	0.07
1/5 lb		7.67	7.67	7	7	0.07
1/5 lb		-1.83	-1.83	5	5	0.07
1/10 lb		4.39	4.39	6	6	0.07

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³. The items listed above have been compared to the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. Uncertainty calculations conform to NIST Technical Note 1297. Results apply to items identified in this report only.

Heidi Jones

 Laboratory Administrator

Reviewed by:
 Mark Nicolet

 Quality Manager

FROM : MINDAK SCALE

FAX NO. : 9529448917

Sep. 18 2014 12:00PM P7



10
14305 SOUTHCROSS DRIVE #150
BURNSVILLE, MN 55306-7008
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AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: September 2, 2014
Test Date: September 5 & 9, 2014
Report Date: September 10, 2014

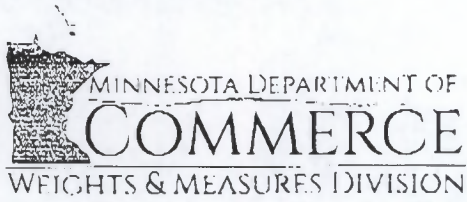
State Test No.: 333018
Set Serial No.: SET D
Bar Code: 018652

Calibration Report

MINDAK SCALE SALES & SERVICE
9628 PORTAL DRIVE
EDEN PRAIRIE, MN 55347
Contact: BRAD ZARTH
Phone: 952-944-8916
PO Number: NONE
SOP: 12
Technician ID: 09

Item(s) Submitted: Avdp. & Grain Set
Manufacturer: Weiss
ASTM E617 Type: II
Equipment ID#: None
Condition: Good
Temperature: 20.1°C
Pressure: 736.3 mmHg
Relative Humidity: 49. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
3 lb		-8.	-8.	4	4	6.
1 lb		-33.	-33.	7	7	6.
1 lb	hook	-52.	-52.	7	7	6.
1/2 lb		-10.	-10.	4	4	6.
1/4 lb		6.48	6.48	4	4	0.07
2/5 lb		-18.83	-18.83	6	6	0.07
1/3 lb		-8.98	-8.98	6	6	0.07
1/3 lb		-13.57	-13.57	7	7	0.07
1/5 lb		-3.6	-3.6	5	5	0.07
1/5 lb		-5.06	-5.06	5	5	0.07
1/6 lb		-1.89	-1.89	5	5	0.07
1/10 lb		-6.2	-6.2	7	7	0.07
1/12 lb		1.34	1.34	5	5	0.07
700 gr		5.18	5.18	5	5	0.07
233 1/3 gr		0.	0.	4	4	0.07
116 2/3 gr		-0.18	-0.18	4	4	0.07
46 2/3 gr		0.46	0.46	5	5	0.07
46 2/3 gr		0.78	0.78	5	5	0.07
23 1/3 gr		0.18	0.18	4	4	0.07



11
14305 SOUTHGROSS DRIVE #150
BURNSVILLE, MN 55306-7008
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Continued,

Receipt Date: September 2, 2014
Test Date: September 5 & 9, 2014
Report Date: September 10, 2014

State Test No.: 333018
Set Serial No.: SET D
Bar Code: 018652

Calibration Report

MINDAK SCALE SALES & SERVICE
9628 PORTAL DRIVE
EDEN PRAIRIE, MN 55347
Contact: BRAD ZARTH
Phone: 952-944-8916
PO Number: NONE
SOP: 12
Technician ID: 09

Item(s) Submitted: Avdp. & Grain Set
Manufacturer: Weiss
ASTM E617 Type: II
Equipment ID#: None
Condition: Good
Temperature: 20.1°C
Pressure: 736.3 mmHg
Relative Humidity: 49. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
700 gr		3.46	3.46	5	5	0.07
350 gr		2.41	2.41	5	5	0.07
175 gr		-0.47	-0.47	4	4	0.07
140 gr		1.33	1.33	5	5	0.07
140 gr *		-1.45	-1.45			0.07
70 gr		0.06	0.06	4	4	0.07
35 gr		0.45	0.45	5	5	0.07
35 gr		0.16	0.16	4	4	0.07
17 1/2 gr		0.14	0.14	4	4	0.07

* No class tolerance.

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³. The items listed above have been compared to the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. Uncertainty calculations conform to NIST Technical Note 1297. Results apply to items identified in this report only.

Heidi Jones
Heidi Jones
Laboratory Administrator

Reviewed by:
Mark Nicollet
Mark Nicollet
Quality Manager



13
 14305 SOUTHCROSS DRIVE #150
 BURNSVILLE, MN 55306 7008
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 AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: September 2, 2014
 Test Date: September 5, 2014
 Report Date: September 5, 2014

State Test No.: 333026
 Set Serial No.: NONE
 Bar Code: 201409

Calibration Report

MINDAK SCALE SALES & SERVICE
 9628 PORTAL DRIVE
 EDEN PRAIRIE, MN 55347
 Contact: BRAD ZARTH
 Phone: 952-944-8916
 PO Number: NONE
 SOP: 12
 Technician ID: 9

Item(s) Submitted: Avdp. & Metric Weights
 Manufacturer: Howe, Toledo, unknown
 ASTM E617 Type: II
 Equipment ID#: None
 Condition: Good
 Temperature: 19.8°C
 Pressure: 740.4 mmHg
 Relative Humidity: 48. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
10 lb		428.	428.	7	7	15.
5 . lb		77.	77.	5	5	10.
5 .. lb		-59.	-59.	5	5	10.
2 . lb		27.	27.	5	5	1.
2 .. lb		-7.	-7.	4	4	1.
2 ... lb		13.	13.	5	5	1.
1 lb		2.	2.	4	4	1.
500 g		-1.7	-1.7	4	4	4.6
500 . g		-16.8	-16.8	5	5	4.6

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³. The items listed above have been compared to the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. Uncertainty calculations conform to NIST Technical Note 1297. Results apply to items identified in this report only.

Hcidi Jones

 Laboratory Administrator

Reviewed by:
 Mark Nicollet

 Quality Manager



FROM : MINDAK SCALE

FAX NO. : 9529448917

Sep. 18 2014 12:02PM P11



14
14305 SOUTHCROSS DRIVE #150
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Receipt Date: September 8, 2014
Test Date: September 9, 2014
Report Date: September 9, 2014

State Test No.: 333061
Sct Serial No.: NONE
Bar Code: 201398

Calibration Report

MINDAK SCALE SALES & SERVICE
9628 PORTAL DRIVE
EDEN PRAIRIE, MN 55347
Contact: BRAD ZARTH
Phone: 952-944-8916
PO Number: NONE
SOP: 12
Technician ID: 9

Item(s) Submitted: Metric weight set
Manufacturer: Rice Lake
ASTM E617 Type: II
Equipment ID#: None
Condition: Good
Temperature: 20.2°C
Pressure: 733.4 mmHg
Relative Humidity: 43. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
5000 g		5.	5.	4	4	25.
2000 g		5.	5.	4	4	10.
2000 g		0.	0.	4	4	10.
1000 g		2.	2.	4	4	6.
500 g		1.3	1.3	4	4	4.6

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³. The items listed above have been compared to the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. Uncertainty calculations conform to NIST Technical Note 1297. Results apply to items identified in this report only.

Heidi Jones

Heidi Jones
Laboratory Administrator

Reviewed by:

Mark Nicollet

Mark Andrew Nicollet
Quality Manager

Page 1 of 1



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Receipt Date: September 8, 2014
 Test Date: September 9, 2014
 Report Date: September 9, 2014

State Test No.: 333062
 Set Serial No.: NONE
 Bar Code: 202154

Calibration Report

MINDAK SCALE SALES & SERVICE
 9628 PORTAL DRIVE
 EDEN PRAIRIE, MN 55347
 Contact: BRAD ZARTH
 Phone: 952-944-8916
 PO Number: NONE
 SOP: 12
 Technician ID: 09

Item(s) Submitted: 30 lb kit
 Manufacturer: Rice Lake
 ASTM E617 Type: I & II
 Equipment ID#: None
 Condition: Good
 Temperature: 20.1°C
 Pressure: 733.1 mmHg
 Relative Humidity: 46. %

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
10 lb		53.	53.	F	F	15.
10 lb		59.	59.	F	F	15.
5 lb		94.	94.	F	F	10.
2 lb		38.	38.	F	F	6.
2 lb		37.	37.	F	F	6.
1 lb		16.	16.	F	F	6.
0.2 lb		9.46	9.46	F	F	0.07
0.2 lb		4.3	4.3	F	F	0.07
0.1 lb		3.86	3.86	F	F	0.07
0.05 lb		1.31	1.31	F	F	0.07
0.02 lb		0.31	0.31	F	F	0.07
0.02 lb		0.63	0.63	F	F	0.07
0.01 lb		0.65	0.65	F	F	0.07
0.005 lb		0.31	0.31	F	F	0.07
0.002 lb		0.06	0.06	F	F	0.07
0.002 lb		0.07	0.07	F	F	0.07
0.001 lb		0.15	0.15	F	F	0.07



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Continued,

Receipt Date: September 8, 2014
 Test Date: September 9, 2014
 Report Date: September 9, 2014

State Test No.: 333062
 Set Serial No.: NONE
 Bar Code: 202154

Calibration Report

MINDAK SCALE SALES & SERVICE
 9628 PORTAL DRIVE
 EDEN PRAIRIE, MN 55347
 Contact: BRAD ZARTH
 Phone: 952-944-8916
 PO Number: NONE
 SOP: 12
 Technician ID: 09

Item(s) Submitted: 30 lb kit
 Manufacturer: Rice Lake
 ASTM E617 Type: I & II
 Equipment ID#: None
 Condition: Good
 Temperature: 20.1°C
 Pressure: 733.1 mmHg
 Relative Humidity: 46. %

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
8 oz		7.	7.	F	F	6.
8 oz		12.	12.	F	F	6.
4 oz		7.78	7.78	F	F	0.07
2 oz		3.17	3.17	F	F	0.07
1 oz		2.04	2.04	F	F	0.07
1/2 oz		0.22	0.22	F	F	0.07
1/4 oz		0.26	0.26	F	F	0.07
1/8 oz		0.27	0.27	F	F	0.07
1/16 oz		0.07	0.07	F	F	0.07
1/32 oz		0.35	0.35	F	F	0.07
1/32 oz		0.51	0.51	F	F	0.07

When used as a set these weights meet NIST HB105-1 Class F Tolerance.

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³. The items listed above have been compared to the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. Uncertainty calculations conform to NIST Technical Note 1297. Results apply to items identified in this report only.

Heidi Jones

 Laboratory Administrator

Reviewed by:
 Mark Nicollet

 Quality Manager

United States Department of Commerce National Institute of Standards and Technology

Certificate of Metrological Traceability For:

Minnesota

This laboratory has demonstrated evidence of an unbroken chain of metrological traceability of its standards to the international system of units (SI), documented measurement uncertainties, uses documented measurement procedures, successfully completed training and proficiency tests, documented calibration intervals, submitted a quality management system, and demonstrated suitable measurement assurance for the Scope listed on this certificate.

The Office of Weights and Measures Program assesses laboratories to NIST Handbook 143 - Program Handbook for State Weights and Measures Laboratories and ISO/IEC 17025:2005.



2014

Scope

Mass Echelon I

30 kg to 1 mg

Mass Echelon II

50 kg to 1 mg

1000 lb to 0.001 lb

4 oz to 0.03125 oz

Mass Echelon III

50 kg to 1 mg

5000 lb to 0.001 lb

8 oz to 0.03125 oz

Weight Carts

10 000 lb to 2000 lb

Wheel Load Weighers

20000 lb to 2000 lb

Railroad Test Cars

110 000 lb to 80 000 lb

Volume Gravimetric, I

20 L to 1 mL

100 gal to 0.25 qt

Volume Transfer, II

1500 gal to 5 gal

100 gal to 25 gal LPG

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

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

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