



**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 <b>Mindak Scale</b>	Email Address <b>Brad@MindakScale.com</b>	Application Date <b>10/19/15</b>	
Mailing Address <b>9128 Postal Dr.</b>	City <b>Eden Prairie</b>	State <b>MN</b>	Zip Code <b>55347</b>
Telephone Number <b>952-944-8916</b>	Cell Phone Number <b>612-834-0589</b>	Fax Number <b>952-944-8917</b>	

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) <small>e.g. Scales - 2, 3, 6, 8; e.g. Liquid - 1, 2, 6</small>
<b>1435</b>	<b>Bradley S. Zanth</b>	<b>Scales 1, 2, 3, 4, 6, 7</b>

Application for Registration as a Registered Service Company  
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List below all field standards (attach current calibration reports):

2- 2000lb WT Carts	Metric wt set 5000g - 2, 2000,
1b - 1000lb Cube wts	6000, 500g
4- 500lb Cube wts	Small Kit 4-8 lb 4-11b 2lb
50- 50lb wts 3-30lbs 2-20lb	
Rice Lake Fractional Kit .001lb - 10lb	
Mixed Sets 2-500g, 8oz 1, 3, 2, 2, 5-10lb	
Troemmer gram Kit, 002 - 2000g	
Ratio wts Kit Assorted Tip & Butt	
wts Fractional split kit weiss	

Additional Application Items (initial where appropriate):

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

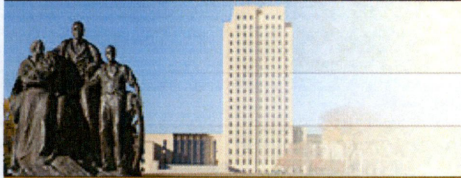
I am Bradley S. Zarth, and have authority to represent this company. By signing this application, I declare that I have examined this form and accompanying documentation, and to the best of my knowledge and belief, the facts stated and documentation provided is true, correct, and complete.

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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# 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.

[2014](#) [2015](#) (generates a forms-fillable pdf in a new pop-up window)[Return to Search Results](#)[Contact Us](#)[Disclaimer](#)[Privacy Policy](#)

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

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FROM : MINDAK SCALE

FAX NO. : 9529448917

Oct. 19 2015 05:19PM P6



11305 SOUTH CROSS DRIVE #150  
BURNSVILLE, MN 55306-7008  
MN.GOV/COMMERCE/  
651.539.1555 FAX 952.435.4040  
AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: September 8, 2015  
Test Date: September 9, 2015  
Report Date: September 9, 2015

State Test No.: 334747  
Set Serial No.: Baldor and B & D  
Barcode: 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: 11

Item(s) Submitted: 2000 lb Weight Carts  
Manufacturer: Howe  
ASTM E617 Type: NA  
Equipment ID#: None  
Condition: Good  
Temperature: 19.4 °C  
Pressure: 736.9 mmHg  
Relative Humidity: 51. %

Nominal Value	Serial No.	Correction (g)		NIST 11B105-8 Tol		Unc. (g) (k=2)
		As Found	As Left	As Found	As Left	
2000 lb	Baldor	110	110	Meets	Meets	60.
2000 lb	B & D	180	0	*	Meets	60.

\* Weight Cart as found exceeds NIST 11B 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/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup>. 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.

Pete Whabbe

Metrologist

Reviewed by:

Heidi Jones

Laboratory Administrator

Page 1 of 1



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Receipt Date: September 8, 2015  
Test Date: September 8, 2015  
Report Date: September 8, 2015

State Test No.: 334746  
Set Serial No.: 1 to 16  
Barcode: 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: 11

Item(s) Submitted: Cast Cube Weights  
Manufacturer: Howe, Cardinal, Webb  
ASTM E617 Type: II  
Equipment ID#: None  
Condition: Good  
Temperature: 19.2 °C  
Pressure: 734.5 mmHg  
Relative Humidity: 50. %

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	-12.	-12.	F	F	5.
1000 lb	2	-10.	-10.	F	F	5.
1000 lb	3	2.	2.	F	F	5.
1000 lb	4	-8.	-8.	F	F	5.
1000 lb	5	-43.	5.	*	F	5.
1000 lb	6	-39.	-39.	F	F	5.
1000 lb	7	-5.	-5.	F	F	5.
1000 lb	8	-34.	-34.	F	F	5.
1000 lb	9	-35.	-35.	F	F	5.
1000 lb	10	-4.	-4.	F	F	5.
1000 lb	11	-67.	-17.	*	F	5.
1000 lb	12	5.	5.	F	F	5.
1000 lb	13	-25.	-25.	F	F	5.
1000 lb	14	-61.	0.	*	F	5.
1000 lb	15	-24.	-24.	F	F	5.
1000 lb	16	-58.	3.	*	F	5.

\* 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/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup>. 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.

Reviewed by:

Heidi Jones

*Heidi Jones*  
Laboratory Administrator

Pete Whebbe

*Pete Whebbe*  
Metrologist





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Receipt Date: September 8, 2015  
Test Date: September 9, 2015  
Report Date: September 9, 2015

State Test No.: 334745  
Set Serial No.: None  
Barcode: 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: 11

Item(s) Submitted: Cast Cube Weights  
Manufacturer: Rice Lake  
ASTM E617 Type: II  
Equipment ID#: None  
Condition: Good  
Temperature: 19.7 °C  
Pressure: 736.9 mmHg  
Relative Humidity: 53. %

Nominal Value	Serial No.	Correction (g)		NIST HB105-1 Class		Unc. (g) (k=2)
		As Found	As Left	As Found	As Left	
500 lb		-31.6	-0.7	*	F	1.1
500 lb		5.6	5.6	F	F	1.1
500 lb		-38.7	4.3	*	F	1.1
500 lb		-8.3	-8.3	F	F	1.1

\* 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/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup>. 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.

Pete Whobbe

Metrologist

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Reviewed by:

Heidi Jones

Laboratory Administrator



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Continued,

Receipt Date: September 8, 2015  
 Test Date: September 9, 2015  
 Report Date: September 9, 2015

State Test No.: 334748  
 Sct Serial No.: None  
 Barcode: 201410

## 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: 11

Item(s) Submitted: Cast Hand Weights  
 Manufacturer: Howe & Assorted Cast  
 ASTM E617 Type: II  
 Equipment ID#: None  
 Condition: Good  
 Temperature: 19.4°C  
 Pressure: 736.5 mmHg  
 Relative Humidity: 51. %

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
50 lb		1810.	1810.	F	F	110.
50 lb		-420.	-420.	F	F	110.
50 lb		300.	300.	F	F	110.
50 lb		1130.	1130.	F	F	110.
50 lb		1260.	1260.	F	F	110.
50 lb		-710.	-710.	F	F	110.
50 lb		2040.	2040.	F	F	110.

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/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup>. 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.

Pete Whebbe

Metrologist

Reviewed by:

Heidi Jones

Laboratory Administrator



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Receipt Date: September 8, 2015  
Test Date: September 9, 2015  
Report Date: September 9, 2015

State Test No.: 334749  
Set Serial No.: None  
Barcode: 201411

## 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: 11

Item(s) Submitted: Cast Hand Weights  
Manufacturer: Assorted  
ASTM E617 Type: II  
Equipment ID#: None  
Condition: Good  
Temperature: 19.4 °C  
Pressure: 736.7 mmHg  
Relative Humidity: 52. %

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
20	lb	780.	780.	F	F	75.
30	lb	-680.	-680.	F	F	75.
50	lb	2200.	0.	*	F	110.
50	lb	-750.	-750.	F	F	110.
50	lb	-720.	-720.	F	F	110.
50	lb	-3910.	110.	*	F	110.
50	lb	2010.	2010.	F	F	110.
50	lb	2030.	2030.	F	F	110.
50	lb	290.	290.	F	F	110.
50	lb	-940.	-940.	F	F	110.
50	lb	-1670.	-1670.	F	F	110.
50	lb	2660.	280.	*	F	110.
50	lb	-6880.	90.	*	F	110.
50	lb	1370.	1370.	F	F	110.
50	lb	-3260.	600.	*	F	110.
50	lb	920.	920.	F	F	110.
50	lb	480.	480.	F	F	110.
50	lb	-1770.	-1770.	F	F	110.
50	lb	1160.	1160.	F	F	110.
50	lb	-3300.	10.	*	F	110.
50	lb	-1380.	-1380.	F	F	110.
50	lb	-4380.	30.	*	F	110.

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/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup>. 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.

Pete Whobbe

Metrologist

Reviewed by:

Heidi Jones

Laboratory Administrator



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Receipt Date: September 8, 2015  
 Test Date: September 9, 2015  
 Report Date: September 9, 2015

State Test No.: 334748  
 Set Serial No.: None  
 Barcode: 201410

## 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: 11

Item(s) Submitted: Cast Hand Weights  
 Manufacturer: Howe & Assorted Cast  
 ASTM E617 Type: II  
 Equipment ID#: None  
 Condition: Good  
 Temperature: 19.4 °C  
 Pressure: 736.5 mmHg  
 Relative Humidity: 51. %

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
20 lb		660.	660.	F	F	75.
30 lb		950.	950.	F	F	75.
30 lb		490.	490.	F	F	75.
50 lb		1490.	1490.	F	F	110.
50 lb		1390.	1390.	F	F	110.
50 lb		-180.	-180.	F	F	110.
50 lb		-90.	-90.	F	F	110.
50 lb		-300.	-300.	F	F	110.
50 lb		510.	510.	F	F	110.
50 lb		1340.	1340.	F	F	110.
50 lb		1820.	1820.	F	F	110.
50 lb		2140.	2140.	F	F	110.
50 lb		1280.	1280.	F	F	110.
50 lb		1370.	1370.	F	F	110.
50 lb		2680.	50.	*	F	110.
50 lb		1470.	1470.	F	F	110.
50 lb		220.	220.	F	F	110.
50 lb		1700.	1700.	F	F	110.
50 lb		1550.	1550.	F	F	110.
50 lb		2060.	2060.	F	F	110.
50 lb		-350.	-350.	F	F	110.
50 lb		680.	680.	F	F	110.
50 lb		-920.	-920.	F	F	110.
50 lb		-740.	-740.	F	F	110.
50 lb		-1790.	-1790.	F	F	110.
50 lb		1940.	1940.	F	F	110.

\* Weight(s) as found exceed NIST HB105-1 Class F Tolerance.



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BURNSVILLE, MN 55306-7008  
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AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: September 8, 2015  
Test Date: September 9, 2015  
Report Date: September 10, 2015

State Test No.: 334756  
Set Serial No.: NONE  
Barcode: 018653

## 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: 9

Item(s) Submitted: Mild steel slot weights  
Manufacturer: Unknown  
ASTM E617 Type: II  
Equipment ID#: None  
Condition: Good  
Temperature: 20. °C  
Pressure: 736.1 mmHg  
Relative Humidity: 42. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
8 lb ***		122	122			15.
8 lb ***		174	174			15.
8 lb ***		121	121			15.
8 lb ***		61	61			15.
4 lb ***		-68	-68			10.
2 lb		-41.5	-41.5	6	6	6.

\*\*\* 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/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup>. 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

Page 1 of 1

Reviewed by:

Pete Whebbe

*Pete Whebbe*  
Metrologist

FROM : MINDAK SCALE

FAX NO. : 9529448917

Oct. 19 2015 05:20PM PB



14305 SOUTHCROSS DRIVE #150  
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AN EQUAL OPPORTUNITY EMPLOYER

Receipt Date: September 8, 2015  
Test Date: September 9, 2015  
Report Date: September 9, 2015

State Test No.: 334750  
Set Serial No.: Nonc  
Barcode: 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: 20.4 °C  
Pressure: 736.8 mmHg  
Relative Humidity: 44. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
5000 g		4	4	4	4	25.
2000 g		3.3	3.3	4	4	10.
2000 g		2.9	2.9	4	4	10.
1000 g		1.5	1.5	4	4	6.
500 g		1.0	1.0	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/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup>. 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:

Pete Whebbe

*Pete Whebbe*  
Metrologist

Page 1 of 1



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Receipt Date: September 8, 2015  
 Test Date: September 9, 2015  
 Report Date: September 9, 2015

State Test No.: 334751  
 Set Serial No.: 18272  
 Barcode: 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: 736.8 mmHg  
 Relative Humidity: 44. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
2000 g		37.5	37.5	5	5	10.
1000 g		72.2	72.2	6	6	6.
500 g		16.4	16.4	5	5	4.6
200 g		17.7	17.7	6	6	1.
200 g		13.6	13.6	5	5	1.
100 g		-5.93	-5.93	5	5	0.45
50 g		0.79	0.79	4	4	0.25
20 g		-0.07	-0.07	4	4	0.25
20 g		0.92	0.92	5	5	0.25
10 g		-0.08	-0.08	4	4	0.12
5 g		0.05	0.05	4	4	0.1
2 g		-0.01	-0.01	4	4	0.07
2 g		-0.12	-0.12	4	4	0.07
1 g		0.13	0.13	5	5	0.07
8 oz		8.0	8.0	5	5	6.





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

Receipt Date: September 8, 2015  
 Test Date: September 9, 2015  
 Report Date: September 9, 2015

Continued,  
 State Test No.: 334751  
 Set Serial No.: 18272  
 Barcode: 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: 736.8 mmHg  
 Relative Humidity: 44. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
0.5 g		0.267	0.267	5	5	0.07
0.2 g		0.215	0.215	6	6	0.07
0.2 g		0.104	0.104	5	5	0.07
0.1 g		0.216	0.216	6	6	0.07
0.05 g		0.190	0.190	6	6	0.07
0.02 g		0.118	0.118	6	6	0.07
0.02 g		-0.014	-0.014	5	5	0.07
0.01 g		0.034	0.034	6	6	0.07
0.005 g		0.034	0.034	6	6	0.07
0.002 g		0.007	0.007	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/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup>. 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:  
 Pete Whelbe  
  
 Metrologist





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Receipt Date: September 8, 2015  
 Test Date: September 9, 2015  
 Report Date: September 10, 2015

State Test No.: 334752  
 Set Serial No.: NONE  
 Barcode: 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 w/ decimals and fractions  
 Manufacturer: Rice Lake  
 ASTM E617 Type: I & II  
 Equipment ID#: None  
 Condition: Good  
 Temperature: 20. °C  
 Pressure: 736.1 mmHg  
 Relative Humidity: 42. %

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
10 lb		59	59	F	F	15.
10 lb		58	58	F	F	15.
5 lb		94	94	F	F	10.
2 lb		36.9	36.9	F	F	6.
2 lb		38.6	38.6	F	F	6.
1 lb		15.9	15.9	F	F	6.
0.2 lb		9.50	9.50	F	F	0.07
0.2 lb		4.33	4.33	F	F	0.07
0.1 lb		3.90	3.90	F	F	0.07
0.05 lb		1.29	1.29	F	F	0.07
0.02 lb		0.29	0.29	F	F	0.07
0.02 lb		0.60	0.60	F	F	0.07
0.01 lb		0.63	0.63	F	F	0.07
0.005 lb		0.30	0.30	F	F	0.07
0.002 lb		0.04	0.04	F	F	0.07
0.002 lb		0.07	0.07	F	F	0.07
0.001 lb		0.16	0.16	F	F	0.07



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Continued,

Receipt Date: September 8, 2015  
 Test Date: September 9, 2015  
 Report Date: September 10, 2015

State Test No.: 334752  
 Set Serial No.: NONE  
 Barcode: 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

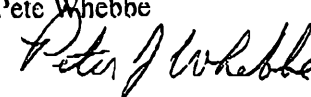
Item(s) Submitted: 30 lb kit w/ decimals and fractions  
 Manufacturer: Rice Lake  
 ASTM E617 Type: I & II  
 Equipment ID#: None  
 Condition: Good  
 Temperature: 20.°C  
 Pressure: 736.1 mmHg  
 Relative Humidity: 42. %

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
8 oz		13.2	13.2	F	F	6.
4 oz		7.73	7.73	F	F	0.07
2 oz		3.18	3.18	F	F	0.07
1 oz		2.00	2.00	F	F	0.07
1/2 oz		0.19	0.19	F	F	0.07
1/4 oz		0.30	0.30	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		0.36	0.36	F	F	0.07
1/32 oz		0.53	0.53	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/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup>. 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:  
 Pete Whebbe  
  
 Metrologist



14305 SOUTHCROSS DRIVE #150  
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Receipt Date: September 8, 2015  
 Test Date: September 9, 2015  
 Report Date: September 10, 2015

State Test No.: 334753  
 Set Serial No.: NONE  
 Barcode: 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. and metric weights  
 Manufacturer: Howe, Toledo, unknow  
 ASTM E617 Type: II  
 Equipment ID#: None  
 Condition: Good  
 Temperature: 20. °C  
 Pressure: 736.1 mmHg  
 Relative Humidity: 42. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
10 lb		592	152	7	6	15.
5 . lb		82	82	5	5	10.
5 .. lb		-55	-55	5	5	10.
2 . lb		28.7	28.7	6	6	6.
2 .. lb		-68.6	-68.6	7	7	6.
2 ... lb		15.2	15.2	5	5	6.
1 lb		2.6	2.6	5	5	6.
500 g		-16.6	-16.6	5	5	4.6
500 . g		-1.8	-1.8	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/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup>. 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:  
 Pete Whebbe  
  
 Metrologist





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Receipt Date: September 8, 2015  
 Test Date: September 10, 2015  
 Report Date: September 10, 2015

State Test No.: 334754  
 Set Serial No.: NONE  
 Barcode: 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: Fair  
 Temperature: 20.6 °C  
 Pressure: 737.7 mmHg  
 Relative Humidity: 46. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
3 lb		-24.5	-24.5	5	5	6.
2 lb		-40.1	-40.1	6	6	6.
1 lb		-23.6	-23.6	6	6	6.
0.5 lb		5.6	5.6	5	5	6.
1/4 lb		-0.53	-0.53	4	4	0.07
1 lb	hook	25.8	25.8	7	7	6.
2/5 lb		-13.90	-13.90	7	7	6.
1/3 lb		-10.37	-10.37	7	7	0.07
1/3 lb		-9.96	-9.96	7	7	0.07
1/5 lb		7.70	7.70	7	7	0.07
1/5 lb		-1.51	-1.51	5	5	0.07
1/6 lb		-1.75	-1.75	5	5	0.07
1/10 lb		4.04	4.04	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/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup>. 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:  
 Pete Wuebbe  
  
 Metrologist





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Receipt Date: September 8, 2015  
Test Date: September 10, 2015  
Report Date: September 10, 2015

State Test No.: 334755  
Set Serial No.: Set D  
Barcode: 018652

## Calibration Report

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

Item(s) Submitted: Avdp. weight set w/ ratio weights  
Manufacturer: Weiss  
ASTM E617 Typc: I & II  
Equipment ID#: None  
Condition: Fair  
Temperature: 20.6 °C  
Pressure: 737.7 mmHg  
Relative Humidity: 46. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
3 lb	hook	-6.7	-6.7	4	4	6.
1 lb		-33.7	-33.7	7	7	6.
1 lb		-52.4	-52.4	7	7	6.
1/2 lb		-10.4	-10.4	6	6	6.
1/4 lb		6.80	6.80	5	5	0.07
2/5 lb		-18.92	-18.92	7	7	6.
1/3 lb		-13.89	-13.89	7	7	0.07
1/3 lb		-9.19	-9.19	7	7	0.07
1/5 lb		-4.00	-4.00	5	5	0.07
1/5 lb		-5.15	-5.15	5	5	0.07
1/5 lb		-2.08	-2.08	5	5	0.07
1/6 lb		-6.28	-6.28	7	7	0.07
1/10 lb	1.08	1.08	5	5	0.07	
1/12 lb						
700 gr		5.09	5.09	7	7	0.07
233 1/3 gr		0.01	0.01	4	4	0.07
116 2/3 gr		-0.23	-0.23	4	4	0.07
46 2/3 gr		0.78	0.78	7	7	0.07
46 2/3 gr		0.46	0.46	5	5	0.07
23 1/3 gr		0.19	0.19	5	5	0.07



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Receipt Date: September 8, 2015  
 Test Date: September 10, 2015  
 Report Date: September 10, 2015

Continued,  
 State Test No.: 334755  
 Set Serial No.: Set D  
 Barcode: 18652

## 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. weight set w/ ratio weights  
 Manufacturer: Weiss  
 ASTM E617 Type: I & II  
 Equipment ID#: None  
 Condition: Fair  
 Temperature: 20.6°C  
 Pressure: 737.7 mmHg  
 Relative Humidity: 46. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
700 gr		3.45	3.45	7	7	0.07
350 gr		2.21	2.21	5	5	0.07
175 gr		-0.35	-0.35	5	5	0.07
140 gr		-1.43	-1.43	7	7	0.07
140 gr		1.25	1.25	7	7	0.07
70 gr		0.03	0.03	4	4	0.07
35 gr		0.15	0.15	4	4	0.07
35 gr		0.43	0.43	5	5	0.07
17 1/2 gr		0.14	0.14	5	5	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/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup>. 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

Page 2 of 2

Reviewed by:

Pete Whebbe

*Pete Whebbe*  
 Metrologist

# 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.

### Scope

#### 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  
4 oz to 0.03125 oz

#### Weight Carts

10 000 lb to 2000 lb

#### Wheel Load Weighers

20 000 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



2015

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

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

Effective Dates: 2015-01-01 to 2015-12-31

