



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 <i>Anderson Ind. Scales</i>		Email Address <i>scales@misswa.net</i>		Application Date <i>3-31-16</i>	
Mailing Address <i>P.O. Box 629</i>		City <i>Nisswa</i>		State <i>MN</i>	Zip Code <i>56468</i>
Telephone Number <i>218-963-3960</i>		Cell Phone Number <i>218-820-3138</i>		Fax Number <i>218-963-2413</i>	

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

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

Permit No.	Employee	Device Types Registered to Certify (list using device type numbers from above)
<i>1353</i>	<i>James Johnson</i>	<i>Scales 1, 2, 3, 4, 5, 6, 7</i>

2 WM-15-763 Filed: 3/31/2016 Pages: 15
Application for Permit

Continued on Page 2

Anderson Industrial Scales, Inc.

Application for Registration as a Registered Service Company
Page 2

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

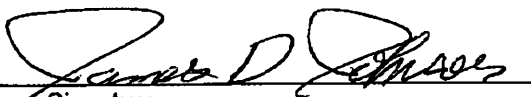
Additional Application Items (initial where appropriate):

Standardized Test Report	<input checked="" type="checkbox"/> Copy enclosed <input checked="" type="checkbox"/> No change in report filed previously
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

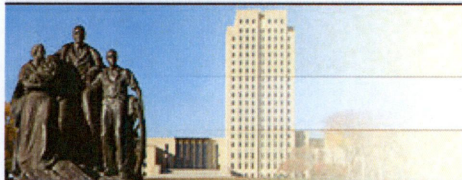
I am James Johnson, and have authority to represent this company.
 By signing this application, I declare that I have examined this form and accompanying documentation, and to the best of my knowledge and belief, the facts stated and documentation provided is true, correct, and complete.


Signature

Send Completed Application and Related Documents To:

Public Service Commission
 600 E Boulevard Ave Dept 408
 Bismarck ND 58505-0480
 Telephone: (701) 328-2400
 Fax: (701) 328-2410

North Dakota

nd.gov Official Portal for
North Dakota State GovernmentNorth Dakota
LEGISLATURE

SECRETARY OF STATE NORTH DAKOTA

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ANDERSON INDUSTRIAL SCALES, INC.

Corporation Details

System ID: 18244100 **Phone:** (218) 963-3960
Type: FOREIGN BUSINESS CORPORATION
Status: Active & Good Standing
Original File Date: 07/10/2002 **Effective Date:** 07/10/2002
State of Origin: Minnesota

Nature of Business

SALES, SERVICE & CALIBRATION OF SCALES

Principal Office

4627 UPPER ROY LAKE RD NISSWA, MN 56468-2758

Registered Agent

PHIL MCINTYRE
1420 4TH ST N
FARGO, ND 58102-2733
Established Date: Mar 29, 2012

Generate an Annual Report To File

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

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

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Will open a new window (pop-up).

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Receipt Date: March 21, 2016
Test Date: March 21, 2016
Report Date: March 21, 2016

State Test No.: 335701
Set Serial No.: None
Barcode: 200960

Calibration Report

ANDERSON INDUSTRIAL SCALES
4627 ROY LAKE RD
NISSWA, MN 56468-0629
Contact: James Johnson
Phone: 218-963-3960
PO Number: NONE
SOP: 12
Technician ID: 11

Item(s) Submitted: 2500 lb & 3000 lb Weight Carts
Manufacturer: Anderson
ASTM E617 Type: NA
Equipment ID#: None
Condition: Excellent
Temperature: 18.9 °C
Pressure: 736.5 mmHg
Relative Humidity: 52.7 %

Nominal Value	Serial No.	Correction (g)		NIST HB105-8 Tolerance		Uncertainty (g) (k = 2)
		As Found	As Left	As Found	As Left	
2500 lb		100.	100.	Meets	Meets	60.
3000 lb		-180.	-10.	*	Meets	60.

* 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. All of the tolerances and specifications were evaluated according to NIST Handbook 105-8 (2003). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). Results apply to items identified in this report only.

Pete Whebbe

Metrologist

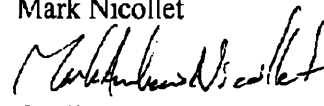


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Reviewed by:

Mark Nicollet

Quality Manager



Receipt Date: March 21, 2016
Test Date: March 21, 2016
Report Date: March 21, 2016

State Test No.: 335702
Set Serial No.: None
Barcode: 200959

Calibration Report

ANDERSON INDUSTRIAL SCALES
4627 ROY LAKE RD
NISSWA, MN 56468-0629
Contact: James Johnson
Phone: 218-963-3960
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: Excellent
Temperature: 19. °C
Pressure: 736.5 mmHg
Relative Humidity: 47.3 %

Nominal Value	Serial No.	Correction (g)		NIST HB105-1 Class		Uncertainty (g) (k = 2)
		As Found	As Left	As Found	As Left	
1000 lb		4.0	4.0	F	F	2.0
1000 lb		14.0	14.0	F	F	2.0
1000 lb		12.0	12.0	F	F	2.0
1000 lb		32.0	32.0	F	F	2.0
1000 lb		0.0	0.0	F	F	2.0
1000 lb		29.0	29.0	F	F	2.0
1000 lb		20.0	20.0	F	F	2.0
1000 lb		29.0	29.0	F	F	2.0
1000 lb		13.0	13.0	F	F	2.0
1000 lb		19.0	19.0	F	F	2.0
1000 lb		23.0	23.0	F	F	2.0
1000 lb		9.0	9.0	F	F	2.0
1000 lb		37.0	37.0	F	F	2.0
1000 lb		31.0	31.0	F	F	2.0

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. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). Results apply to items identified in this report only.

Pete Whebbe

Metrologist

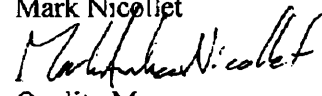


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Reviewed by:

Mark Nicollet

Quality Manager



Receipt Date: March 23, 2016
Cal. Date: March 23, 2016
Report Date: March 23, 2016

Report No.: 335735
Set Serial No.: None
Barcode: 200963

Calibration Certificate


ANDERSON INDUSTRIAL SCALES
4627 ROY LAKE RD
NISSWA, MN 56468-0629
Contact: James Johnson
Phone: 218-963-3960
PO Number: NONE
SOP: 8
Technician ID: 11

Item(s) Submitted: Cast Cube Weights
Manufacturer: Assorted
Weight Type: II
Equipment ID: None
Condition: Excellent
Temperature: 19.1 °C
Pressure: 735.5 mmHg
Relative Humidity: 48.9 %

Nominal Value	lb	Serial No.	CM Correction (g)		NIST HB105-1 Class		k	U (g)
			As Found	As Left	As Found	As Left		
1000	lb	--	2.8	2.8	F	F	2.01	2.0
1000	lb	--	20.8	20.8	F	F	2.01	2.0
1000	lb	--	1.8	1.8	F	F	2.01	2.0
1000	lb	--	-13.2	-13.2	F	F	2.01	2.0
1000	lb	--	11.8	11.8	F	F	2.01	2.0
1000	lb	--	-16.2	-16.2	F	F	2.01	2.0
1000	lb	--	22.8	22.8	F	F	2.01	2.0
1000	lb	--	-17.2	-17.2	F	F	2.01	2.0
1000	lb	--	-25.2	-25.2	F	F	2.01	2.0
1000	lb	--	-23.2	-23.2	F	F	2.01	2.0

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 calibrated using 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. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including coverage factors (k) calculated at the approximate 95.45 % confidence level. Results apply to items identified in this report only.

Pete Whebbe



Metrologist

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Reviewed by:

Mark Nicollet



Quality Manager

Receipt Date: March 21, 2016
Test Date: March 22, 2016
Report Date: March 22, 2016

State Test No.: 335703
Set Serial No.: None
Barcode: 200962

Calibration Report

ANDERSON INDUSTRIAL SCALES
4627 ROY LAKE RD
NISSWA, MN 56468-0629
Contact: James Johnson
Phone: 218-963-3960
PO Number: NONE
SOP: 12
Technician ID: 11

Item(s) Submitted: Cast Hand Weights
Manufacturer: Rice Lake & Asst
ASTM E617 Type: II
Equipment ID#: None
Condition: Excellent
Temperature: 19.2 °C
Pressure: 728.1 mmHg
Relative Humidity: 54.2 %

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Uncertainty (mg) (k = 2)
		As Found	As Left	As Found	As Left	
50 lb		-1190	-1190	F	F	120
50 lb		-300	-300	F	F	120
50 lb		-800	-800	F	F	120
50 lb		-1980	200	F	F	120
50 lb		-3420	310	*	F	120
50 lb		-2270	260	*	F	120
50 lb		-3490	60	*	F	120
50 lb		-2700	20	*	F	120
50 lb		-2860	290	*	F	120
50 lb		-4250	10	*	F	120
50 lb		510	510	F	F	120
50 lb		-40	-40	F	F	120
50 lb		-3680	50	*	F	120
50 lb		-540	-540	F	F	120
50 lb		-1800	20	F	F	120
50 lb		-2460	390	*	F	120
50 lb		-1810	90	F	F	120
50 lb		-3480	560	*	F	120
50 lb		-3410	60	*	F	120
50 lb		-5070	230	*	F	120
50 lb		-4080	20	*	F	120
50 lb		-1430	-1430	F	F	120
50 lb		-1360	-1360	F	F	120
50 lb		-940	-940	F	F	120
50 lb		530	530	F	F	120
50 lb		-3530	440	*	F	120
50 lb		-4240	390	*	F	120
50 lb		-3130	90	*	F	120
50 lb		-1290	-1290	F	F	120
50 lb		-1990	740	F	F	120

Receipt Date: March 21, 2016
Test Date: March 22, 2016
Report Date: March 22, 2016

State Test No.: 335704
Set Serial No.: SN: 1-20
Barcode: 200961

Calibration Report

ANDERSON INDUSTRIAL SCALES
4627 ROY LAKE RD
NISSWA, MN 56468-0629
Contact: James Johnson
Phone: 218-963-3960
PO Number: NONE
SOP: 12
Technician ID: 11


Item(s) Submitted: Cast Hand Weights
Manufacturer: Fairbanks
ASTM E617 Type: II
Equipment ID#: None
Condition: Excellent
Temperature: 19.2 °C
Pressure: 727.3 mmHg
Relative Humidity: 42.2 %


Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Uncertainty (mg) (k = 2)
		As Found	As Left	As Found	As Left	
50 lb	1	-1990	390	F	F	120
50 lb	2	-1640	-1640	F	F	120
50 lb	3	-280	-280	F	F	120
50 lb	4	-1030	-1030	F	F	120
50 lb	5	-870	-870	F	F	120
50 lb	6	-500	-500	F	F	120
50 lb	7	-1120	-1120	F	F	120
50 lb	8	-1640	-1640	F	F	120
50 lb	9	-2000	280	F	F	120
50 lb	10	-1580	-1580	F	F	120
50 lb	11	-1240	-1240	F	F	120
50 lb	12	-1910	210	F	F	120
50 lb	13	-480	-480	F	F	120
50 lb	14	-990	-990	F	F	120
50 lb	15	-2810	60	*	F	120
50 lb	16	-1880	40	F	F	120
50 lb	17	-690	-690	F	F	120
50 lb	18	-1290	-1290	F	F	120
50 lb	19	-650	-650	F	F	120
50 lb	20	-510	-510	F	F	120

* 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. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). Results apply to items identified in this report only.

Pete Wrehbbe

Metrologist

Reviewed by:
Mark Nicollet

Quality Manager

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Continued,

Receipt Date: March 21, 2016
Test Date: March 22, 2016
Report Date: March 22, 2016

State Test No.: 335703
Set Serial No.: None
Barcode: 200962

Calibration Report

ANDERSON INDUSTRIAL SCALES
4627 ROY LAKE RD
NISSWA, MN 56468-0629
Contact: James Johnson
Phone: 218-963-3960
PO Number: NONE
SOP: 12
Technician ID: 11

Item(s) Submitted: Cast Hand Weights
Manufacturer: Rice Lake & Asst
ASTM E617 Type: II
Equipment ID#: None
Condition: Excellent
Temperature: 19.2°C
Pressure: 728.1 mmHg
Relative Humidity: 54.2 %

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Uncertainty (mg) (k = 2)
		As Found	As Left	As Found	As Left	
50 lb		-3520	820	*	F	120
50 lb		-1380	-1380	F	F	120
50 lb		-900	-900	F	F	120
50 lb		540	540	F	F	120
50 lb		-3090	-10	*	F	120
50 lb		-3220	-20	*	F	120
50 lb		-340	-340	F	F	120
50 lb		-670	-670	F	F	120
50 lb		-1920	30	F	F	120
50 lb		-750	-750	F	F	120
25 lb		-3990	380	*	F	67
25 lb		-1980	230	*	F	67
25 lb		-3010	-30	*	F	67
25 lb		-2210	670	*	F	67

* Weight(s) as found exceed 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. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). Results apply to items identified in this report only.


Pete Whebbe



Metrologist

Reviewed by:

Mark Nicoller



Quality Manager

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Receipt Date: March 21, 2016
Test Date: March 21, 2016
Report Date: March 22, 2016

State Test No.: 335705
Set Serial No.: None
Barcode: 202013

Calibration Report

ANDERSON INDUSTRIAL SCALES
4627 ROY LAKE RD
NISSWA, MN 56468-0629
Contact: James Johnson
Phone: 218-963-3960
PO Number: NONE
SOP: 12
Technician ID: 11

Item(s) Submitted: Cast Hand Weights
Manufacturer: Rice Lake
ASTM E617 Type: II
Equipment ID#: None
Condition: Good
Temperature: 20. °C
Pressure: 733.9 mmHg
Relative Humidity: 48.1 %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Uncertainty (mg) (k = 2)
		As Found	As Left	As Found	As Left	
10000 g		480	480	6	6	63
5000 g		504	-52	7	4	30.

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. All of the tolerances and specifications were evaluated according to ASTM E617 (2013). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). Results apply to items identified in this report only.

Pete Whelbe

Metrologist



NVLAP LAB CODE 105003-0

Page 1 of 1

Reviewed by:

Mark Nicolet

Mark Nicolet
Quality Manager

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Receipt Date: March 21, 2016
Test Date: March 22, 2016
Report Date: March 22, 2016

State Test No.: 335706
Set Serial No.: Set 1/56801
Barcode: 019789

Calibration Report

ANDERSON INDUSTRIAL SCALES
4627 ROY LAKE RD
NISSWA, MN 56468
Contact: James Johnson
Phone: 218-963-3960
PO Number: NONE
SOP: 12
Technician ID: 09

Item(s) Submitted: 30 lb kit w/ decimals
Manufacturer: Rice Lake
ASTM E617 Type: I & II
Equipment ID#: None
Condition: Good
Temperature: 20.4 °C
Pressure: 727.8 mmHg
Relative Humidity: 47.9 %

Nominal Value	lb	Serial No.	Correction (mg)		NIST HB105-1 Class		Uncertainty (mg) (k = 2)
			As Found	As Left	As Found	As Left	
10	lb		131	131	F	F	15
5	lb		91	91	F	F	12
2	lb		27.8	27.8	F	F	4.8
2	lb		37.6	37.6	F	F	4.8
1	lb		19.8	19.8	F	F	2.8
0.5	lb		16.9	16.9	F	F	2.3
0.2	lb		6.99	6.99	F	F	0.37
0.2	lb		7.61	7.61	F	F	0.37
0.1	lb		4.02	4.02	F	F	0.30
0.05	lb		1.66	1.66	F	F	0.30
0.02	lb		0.36	0.36	F	F	0.16
0.02	lb		0.10	0.10	F	F	0.16
0.01	lb		0.58	0.58	F	F	0.12
0.005	lb		0.54	0.54	F	F	0.10
0.002	lb		-0.140	-0.140	F	F	0.066
0.002	lb		0.140	0.140	F	F	0.066
0.001	lb		0.280	0.280	F	F	0.057

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. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). Results apply to items identified in this report only.

Heidi Jones
Heidi Jones
Laboratory Administrator

Page 1 of 1

Reviewed by:
Mark Nicolet
Mark Nicolet
Quality Manager

Receipt Date: March 21, 2016
Test Date: March 22, 2016
Report Date: March 22, 2016

State Test No.: 335707
Set Serial No.: Set 2/56468
Barcode: 019790

Calibration Report

ANDERSON INDUSTRIAL SCALES
4627 ROY LAKE RD
NISSWA, MN 56468
Contact: James Johnson
Phone: 218-963-3960
PO Number: NONE
SOP: 12
Technician ID: 09

Item(s) Submitted: 30 lb kit w/ decimals
Manufacturer: Rice Lake
ASTM E617 Type: I & II
Equipment ID#: None
Condition: Good
Temperature: 20.4 °C
Pressure: 727.8 mmHg
Relative Humidity: 47.9 %

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Uncertainty (mg) (k = 2)
		As Found	As Left	As Found	As Left	
10 lb		95	95	F	F	15
5 lb		51	51	F	F	12
2 lb		30.8	30.8	F	F	4.8
2 lb		15.2	15.2	F	F	4.8
1 lb		24.6	24.6	F	F	2.8
0.5 lb		6.1	6.1	F	F	2.3
0.2 lb		1.79	1.79	F	F	0.37
0.2 lb		4.24	4.24	F	F	0.37
0.1 lb		4.30	4.30	F	F	0.30
0.05 lb		0.31	0.31	F	F	0.30
0.02 lb		0.70	0.70	F	F	0.16
0.02 lb		0.27	0.27	F	F	0.16
0.01 lb		0.99	0.99	F	F	0.12
0.005 lb		0.28	0.28	F	F	0.10
0.002 lb		0.120	0.120	F	F	0.066
0.002 lb		0.170	0.170	F	F	0.066
0.001 lb		0.440	0.440	F	F	0.057

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. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). Results apply to items identified in this report only.

Heidi Jones
Heidi Jones
Laboratory Administrator

Page 1 of 1

Reviewed by:
Mark Nicollet
Mark Nicollet
Quality Manager

Receipt Date: March 21, 2016
 Test Date: March 22, 2016
 Report Date: March 22, 2016

State Test No.: 335708
 Set Serial No.: Set 5
 Barcode: 019787

Calibration Report

ANDERSON INDUSTRIAL SCALES
 4627 ROY LAKE RD
 NISSWA, MN 56468
 Contact: James Johnson
 Phone: 218-963-3960
 PO Number: NONE
 SOP: 12
 Technician ID: 09

Item(s) Submitted: Metric weight set
 Manufacturer: Rice Lake
 ASTM E617 Type: I & II
 Equipment ID#: None
 Condition: Good
 Temperature: 20.9 °C
 Pressure: 728. mmHg
 Relative Humidity: 49.1 %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Uncertainty (mg) (k = 2)
		As Found	As Left	As Found	As Left	
1000 g		34.6	34.6	5	5	7.1
5000 g		19.8	19.8	4	4	30.
200 g		7.8	7.8	5	5	1.2
200 g		7.9	7.9	5	5	1.2
100 g		0.94	0.94	4	4	0.60
50 g		0.49	0.49	4	4	0.36
20 g		1.43	1.43	5	5	0.30
20 g		0.52	0.52	5	5	0.30
10 g		0.37	0.37	5	5	0.24
5 g		0.33	0.33	5	5	0.16
2 g		0.50	0.50	5	5	0.10
2 g		0.30	0.30	5	5	0.10
1 g		0.175	0.175	5	5	0.074



Receipt Date: March 21, 2016
Test Date: March 22, 2016
Report Date: March 22, 2016

Continued,
State Test No.: 335708
Set Serial No.: Set 5
Barcode: 019787

Calibration Report

ANDERSON INDUSTRIAL SCALES
4627 ROY LAKE RD
NISSWA, MN 56468
Contact: James Johnson
Phone: 218-963-3960
PO Number: NONE
SOP: 12
Technician ID: 09

Item(s) Submitted: Metric weight set
Manufacturer: Rice Lake
ASTM E617 Type: I & II
Equipment ID#: None
Condition: Good
Temperature: 20.9°C
Pressure: 728. mmHg
Relative Humidity: 49. %

Nominal Value	Serial No.	Correction (mg)		ASTM E617 Class		Uncertainty (mg) (k = 2)
		As Found	As Left	As Found	As Left	
0.5 g		0.129	0.129	5	5	0.046
0.2 g		0.223	0.223	5	5	0.032
0.2 g		0.174	0.174	5	5	0.032
0.1 g		0.104	0.104	5	5	0.024
0.05 g		0.098	0.098	5	5	0.020
0.02 g		0.064	0.064	5	5	0.016
0.02 g		0.045	0.045	4	4	0.016
0.01 g		-0.006	-0.006	4	4	0.016
0.005 g		0.026	0.026	4	4	0.014
0.002 g		-0.015	-0.015	4	4	0.012

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. All of the tolerances and specifications were evaluated according to ASTM E617 (2013). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008). Results apply to items identified in this report only.

Heidi Jones
Heidi Jones
Laboratory Administrator

Reviewed by:
Mark Nicollet
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.

Scope

Mass Echelon II	Weight Carts	Volume Gravimetric, I
50 kg to 1 mg	10 000 lb to 2000 lb	20 L to 10 mL
1000 lb to 0.001 lb	Wheel Load Weighers	100 gal to 0.25 qt
4 oz to 0.03125 oz	20 000 lb to 2000 lb	Volume Transfer, II
Mass Echelon III	Railroad Test Cars	1500 gal to 5 gal
50 kg to 1 mg	110 000 lb to 80 000 lb	100 gal to 25 gal LPG
5000 lb to 0.001 lb		
4 oz to 0.03125 oz		



2016 to 2017

A handwritten signature in black ink, appearing to read "Carol T. Hockerl".

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

Effective Dates: 2016-01-01 to 2017-12-31