



**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 TK Scales & Service	Email Address todj@ndsuperwet.com	Application Date	
Mailing Address 901 9101 71st Str. SW	City Mott	State N.D.	Zip Code 58641
Telephone Number 701-824-4531	Cell Phone Number 701-260-2459	Fax Number 701-260-4537	

Select below all device types your company will certify:

Scales (include maximum capacity, if applicable)	Liquid (include maximum flow rate, if applicable)
<input 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 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)
e.g. 1001	e.g. John Doe	e.g. Scales - 2, 3, 6, 8; e.g. Liquid - 1, 2, 6
		6-2500 lb Weights
		6-500 lb Weights
		4-50 lb Weights
		1-5000 lb test Cert
		1-set of Finish Weight Kit
		14-counter Weights for Weight Cert

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 type="checkbox"/> No change in report filed previously
Tested and Approved Sticker	<input checked="" type="checkbox"/> Copy enclosed <input type="checkbox"/> No change in sticker filed previously
Photocopy of Crimped Lead Wire Seal	<input checked="" type="checkbox"/> Copy enclosed <input 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 owner, 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.

Zedd E. Kaufman  
 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

# SP SPECIALTY PRODUCTS, INC.

Electronic Scale and Labeling Systems

Phone: 701-328-4070



August 7th, 2018

Shelly Bauske  
Public Service Commission  
600 E. Boulevard Ave.  
Bismarck, N.D. 58505

Re: TK Scales - Mott, N.D.

Dear Shelly:

You have asked me to write a report regarding my scale experiences with Todd Kautzman of TK Scales in Mott, N.D. Well here goes.

Over 9 years ago, Todd bought a 70'x11' Weigh-Tronix scale from Specialty Products. It was my first meeting with him. Since that time he has maintained his scale above and below the ground with the exception of calibrateable functions. His primary job then was selling farm chemical and fertilizer to the general public. He has since sold the business end (but not the buildings & equipment) to another company. Before this, he was a service agent for Melroe Bobcat and his previous background was dealing directly with equipment maintainance. About a year ago, I asked him if he might be interested in getting involved in scale sales and service. He thought it was a great idea and has spent the last 6 months outfitting a test truck and contacting potential south west customers regarding business possibilities. I have spent several weeks with him and provided test reports for him on scales that we serviced together to give him an idea of the work involved. We just installed together a 93'x11' scale for Arrow K Farms at Belfield, N.D. Currently, we are scheduling him for factory service schools from various manufactures. As you know, scale men learn as they go and every day is a new learning experience. Todd is physically positioned to provide you with coverage in an area not

**SP Specialty Products**  
1357 N 5th Street  
Fargo, ND 58102

• (701) 235-2996 • FAX (701) 235-9065 • [specialtyproducts@hotmail.com](mailto:specialtyproducts@hotmail.com)

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AUG - 9 2018

ND Public  
Service  
Commission

well covered by any "local" scale service organization. He has sons who are coming of age and will grow with him to provide you and the State of North Dakota with a valuable resource in the years to come. He is financially stable and has no qualms about spending the monies needed to be a first class scale company.

I started selling scales over 40 years ago. My only experience was that I was an electronics engineer from NDSU with a desire to make a living in a state where agriculture was king. At the time 95% of all scales sold were mechanical and the director of N.D. Weights & Measures (Aden Helgeson) was considering writing a letter forbidding the sale of any more electronic scales because they didn't work as promised. Problem was - mine worked - and he never sent the letter. Since then the wheel has turned and you have to look a long way to find any mechanical scales. Todd is me 40 years later. 95% of this business is common sense and the other 5% is up to you with regulations that guide the appropriate use of todays weighing technology. I know that Todd is up to the challenge and depend on you to assist him just as your department did me. Your help and encouragement is much appreciated.

Regards,

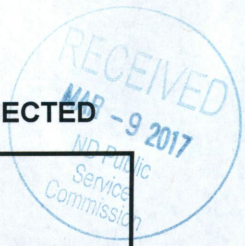
*Phil McIntyre*

Phil McIntyre



**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 TK Scales and Service	Email Address todjo@ndsupernet.com	Application Date	
Mailing Address 7079 Hwy 8	City Mott	State N.D	Zip Code 58646
Telephone Number 701-824-2201	Cell Phone Number 701-260-2458	Fax Number	

Select below all device types your company will certify:

Scales (include maximum capacity, if applicable)	Liquid (include maximum flow rate, if applicable)
<input type="checkbox"/> 1. Rail <input checked="" type="checkbox"/> 2. Truck <input type="checkbox"/> 3. Livestock <input checked="" type="checkbox"/> 4. Hopper: Max. Capacity: _____ <input type="checkbox"/> 5. Belt <input type="checkbox"/> 6. Over 30 lbs.: Max. Capacity: _____ <input 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)
e.g. 1001	e.g. John Doe	e.g. Scales - 2, 3, 6, 8; e.g. Liquid - 1, 2, 6



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


Additional Application Items (initial where appropriate):

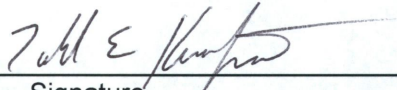
Standardized Test Report	<input type="checkbox"/> Copy enclosed
	<input type="checkbox"/> No change in report filed previously
Tested and Approved Sticker	<input type="checkbox"/> Copy enclosed
	<input type="checkbox"/> No change in sticker filed previously
Photocopy of Crimped Lead Wire Seal	<input type="checkbox"/> Copy enclosed
	<input 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 Todd E. Kautzman, 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

# *State of North Dakota*

## SECRETARY OF STATE



### CERTIFICATE OF ORGANIZATION OF

TK SCALES AND SERVICE LLC  
Secretary of State ID#: 42,668,800

The undersigned, as Secretary of State of the State of North Dakota, hereby certifies that Articles of Organization for

TK SCALES AND SERVICE LLC  
duly signed and executed pursuant to the provisions governing a North Dakota LIMITED LIABILITY COMPANY, have been received in this office and are found to conform to law.

**ACCORDINGLY** the undersigned, as such Secretary of State, and by virtue of the authority vested in him by law, hereby issues this Certificate of Organization to

TK SCALES AND SERVICE LLC

Effective date of organization: February 28, 2017

Issued: February 28, 2017

A handwritten signature in blue ink, reading "Alvin A. Jaeger".

Alvin A. Jaeger  
Secretary of State

North Dakota

nd.gov Official Portal for  
North Dakota State GovernmentNorth Dakota  
LEGENDARY**SECRETARY OF STATE  
NORTH DAKOTA**[Home](#) | [Business Records Search](#)**TK SCALES AND SERVICE LLC****Corporation Details**

**System ID:** 42668800      **Phone:** Not on file  
**Type:** LIMITED LIABILITY COMPANY  
**Status:** Active & Good Standing  
**Original File Date:** 02/28/2017      **Effective Date:** 02/28/2017  
**State of Origin:** North Dakota

**Nature of Business**

SELLING/SERVICING &amp; INSTALLING ALL TYPES OF SCALES

**Principal Office**

7079 HIGHWAY 8 MOTT, ND 58646-8803

**Registered Agent**

**TODD E KAUTZMAN**  
7079 HIGHWAY 8  
MOTT, ND 58646-8803  
Established Date: Feb 28, 2017

**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.

[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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**West Virginia Division of Labor  
Weights And Measures  
State Measurement Laboratory  
Calibration Certificate**



The equipment described in this report has been compared to the standards of the State of West Virginia, and found to comply with the specifications and tolerances listed in NIST Publications. The standards of the State of West Virginia are traceable to the National Institute of Standards and Technology.

**Standard(s) Information**

<b><u>COUNT:</u></b> 1	<b><u>EQUIPMENT TYPE:</u></b> Weight Cart	<b><u>DESCRIPTION:</u></b> Tiffin/ 5000 lb	<b><u>STANDARD:</u></b> 105-8
<b><u>SERIAL # OR ID:</u></b> 1341195			

**CONDITIONS OF THIS CALIBRATION:**

Model: Tiffin, Gas Level: Set at zero mark, State Seal: 342184, Hydraulic Seal: 1480384, Weight Chamber: 1480837, Weight Chamber Bolt: 1480411, Battery: 1480428, 1480464, Gas: 1480829

<b><u>COMPANY ID:</u></b> i364	<b><u>COMPANY NAME:</u></b> TK Scales and Service
	<b><u>Address:</u></b> 9101 71st Street SW
	<b><u>City:</u></b> Mott
	<b><u>State:</u></b> <b><u>Zip:</u></b> ND 58646
	<b><u>Contact:</u></b>

**This Certificate of Calibration Expires 1 year(s) from Friday, March 09, 2018**

**IMPORTANT NOTE !**

All equipment used as standards must be maintained in a clean and rust free condition, protected from any environmental factors which could affect the calibration. Any Weights and Measures seals attached to this equipment must remain intact. If these conditions are not met during the certification period of the standards listed above, this report is invalid.

Calibration By TO/BF Test Number Mb-0303-18  
 Metrologist Anthony O'Brien



**West Virginia Division of Labor  
Weights And Measures  
State Measurement Laboratory  
Calibration Certificate**



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**Standard(s) Information**

<b>COUNT:</b> 1	<b>EQUIPMENT TYPE:</b> Weight Cart	<b>DESCRIPTION:</b> Tiffin/ 5000 lb	<b>STANDARD:</b> 105-8
--------------------	---------------------------------------	--	---------------------------

**SERIAL # OR ID:**  
1341195

**CONDITIONS OF THIS CALIBRATION:**

Model: Tiffin, Gas Level: Set at zero mark, State Seal: 342184, Hydraulic Seal: 1480384, Weight Chamber: 1480837, Weight Chamber Bolt: 1480411, Battery: 1480428, 1480464, Gas: 1480829

<b>COMPANY ID:</b> i364	<b>COMPANY NAME:</b> TK Scales and Service
<b>Address:</b> 9101 71st Street SW	
<b>City:</b> Mott	<b>State: Zip:</b> ND 58646
<b>Contact:</b>	

This Certificate of Calibration Expires            year(s) from Friday, March 09, 2018

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Calibration By   TU/BF   Test Number   Mb-0303-18    
Metrologist   Anthony O'Brien

# West Virginia Weights & Measures

Metrology Laboratory

(304) 722-0602

570 MacCorkle Ave St Albans, WV 25177

(304) 722-0605

Fax



## Certificate of Calibration

www.wvlabor.org



Company Name: TK Scales and Service  
Date of Test: 3/9/2018  
Nominal Weight: 5000 lb

Temperature: 21.1 °C  
Humidity (RH): 40.2 %  
Test #: Mb-0303-18

Serial Number	Nominal Value (lb)	As Found (lb)	As Left (lb)	Adjust	Uncertainty (lb)
1341195	5000	4998.0	5000.1	Y	0.21

### SEALS

State Seal:	342184	Weight Chamber Seal:	1480837
Gas Seal:	1480829	Chamber Bolt Seal:	1480411
Hydraulic Seal:	1480384	Battery Seal:	1480428

### TRACEABILITY STATEMENT

The equipment described in this report has been compared to the standards of the State of West Virginia. The standards of the State of West Virginia are traceable to the SI through the National Institute of Standards and Technology. For conversions to the SI units, please refer to NISTSP 811: 2008 Edition.  
(ref. NC State Lab Cert. #NC1611-010-PC)

### UNCERTAINTY STATEMENT

The combined standard uncertainty includes the standard uncertainty reported for the standard, the standard deviation of the process, the uncertainty of the sensitivity weight and a value of 2% of the tolerance for balance sensitivity. A value of 10 % of the nominal tolerance was also used to account for uncertainty associated with balance drift. Air buoyancy was considered negligible and was not included. The combined standard uncertainty is multiplied by a coverage factor ( $k=2.01$ ) to provide an expanded uncertainty, which defines an interval having a level of confidence of approximately 95 %. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement. The expanded uncertainty is not to be confused with a tolerance limit for the user during application as appropriate for each measurement type.

### CONDITION OF ARTIFACTS

### AMMENDMENTS

### PROCEDURE USED

SOP 33 - Recommended Standard Operating Procedure for Calibration of Weight Carts from NISTIR 6969 2014 Edition

### METROLOGIST

*Anthony O'Brien*

Anthony O'Brien

Results relate only to items calibrated. Report shall not be reproduced except in full without written lab approval.



**West Virginia Division of Labor  
Weights And Measures  
State Measurement Laboratory  
Calibration Certificate**



The equipment described in this report has been compared to the standards of the State of West Virginia, and found to comply with the specifications and tolerances listed in NIST Publications. The standards of the State of West Virginia are traceable to the National Institute of Standards and Technology.

**Standard(s) Information**

<u>COUNT:</u> 14	<u>EQUIPMENT TYPE:</u> Weight < 20 lb	<u>DESCRIPTION:</u> Rice Lake/ 8 oz	<u>STANDARD:</u> F
<u>SERIAL # OR ID:</u> 1 thru 14			

**CONDITIONS OF THIS CALIBRATION:**  
counter weights for weight cart s/n: 1341195

<u>COMPANY ID:</u> i364	<u>COMPANY NAME:</u> TK Scales and Service
	<u>Address:</u> 9101 71st Street SW
	<u>City:</u> Mott
	<u>State:</u> <u>Zip:</u> ND 58646
	<u>Contact:</u>

**This Certificate of Calibration Expires 1 year(s) from Friday, March 09, 2018**

**IMPORTANT NOTE !**

All equipment used as standards must be maintained in a clean and rust free condition, protected from any environmental factors which could affect the calibration. Any Weights and Measures seals attached to this equipment must remain intact. If these conditions are not met during the certification period of the standards listed above, this report is invalid.

Calibration By BF Test Number MC-0304-18  
Metrologist Anthony Davis



**West Virginia Division of Labor  
Weights And Measures  
State Measurement Laboratory  
Calibration Certificate**



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**Standard(s) Information**

<b><u>COUNT:</u></b> 14	<b><u>EQUIPMENT TYPE:</u></b> Weight < 20 lb	<b><u>DESCRIPTION:</u></b> Rice Lake/ 8 oz	<b><u>STANDARD:</u></b> F
<b><u>SERIAL # OR ID:</u></b> 1 thru 14			

**CONDITIONS OF THIS CALIBRATION:**  
counter weights for weight cart s/n: 1341195

<b><u>COMPANY ID:</u></b> i364	<b><u>COMPANY NAME:</u></b> TK Scales and Service
<b><u>Address:</u></b> 9101 71st Street SW	
<b><u>City:</u></b> Mott	<b><u>State:</u></b> <b><u>Zip:</u></b> ND 58646
<b><u>Contact:</u></b>	

**This Certificate of Calibration Expires    year(s) from Friday, March 09, 2018**

**IMPORTANT NOTE !**

All equipment used as standards must be maintained in a clean and rust free condition, protected from any environmental factors which could affect the calibration. Any Weights and Measures seals attached to this equipment must remain intact. If these conditions are not met during the certification period of the standards listed above, this report is invalid.

Calibration By BF Test Number MC-0304-18  
Metrologist Anthony O'Brien



# West Virginia Weights & Measures

Metrology Laboratory

(304) 722-0602

570 MacCorkle Ave St Albans, WV 25177

(304) 722-0605

Fax



## Certificate of Calibration

www.wvlabor.org

Customer Name: Marsha King Test # Mc-0304-18

Company Name: TK Scales and Service Test Date: 3/12/2018

Address: 9101 71st Street SW Tested By: BF

Mott, ND 58646

ID: i364 Serial # A thru N

Serial Number	Nominal Value	As Found (g/mg)	As Left (g/mg)	Adjust	Uncertainty (g/mg)	k Factor
A	0.5 lb	0.0136	0.0136	N	0.0055	2.05
B	0.5 lb	0.0096	0.0096	N	0.0055	2.05
C	0.5 lb	0.0126	0.0126	N	0.0055	2.05
D	0.5 lb	0.0115	0.0115	N	0.0055	2.05
E	0.5 lb	0.0176	0.0176	N	0.0055	2.05
F	0.5 lb	0.0168	0.0168	N	0.0055	2.05
G	0.5 lb	0.0166	0.0166	N	0.0055	2.05
H	0.5 lb	0.0099	0.0099	N	0.0055	2.05
I	0.5 lb	0.0137	0.0137	N	0.0055	2.05
J	0.5 lb	0.0204	0.0204	N	0.0055	2.05
K	0.5 lb	0.0173	0.0173	N	0.0055	2.05
L	0.5 lb	0.0233	0.0233	N	0.0055	2.05
M	0.5 lb	0.0120	0.0120	N	0.0055	2.05
N	0.5 lb	0.0259	0.0259	N	0.0055	2.05

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# West Virginia Weights & Measures

Metrology Laboratory

570 MacCorkle Ave St Albans, WV 25177

(304) 722-0602

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MAY 22 2018

ND Public  
Service  
Commission

(304) 722-0605

Fax



## Certificate of Calibration

www.wvlabor.org

Test #: Mc-0304-18

### TRACEABILITY STATEMENT

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(ref. NC State Lab Cert. # **NC1611-010-PC**, PA State Lab Cert. # **16464** and SC State Lab Cert. # **SC140829-5-14**)

### UNCERTAINTY STATEMENT

The combined standard uncertainty includes the standard uncertainty reported for the standard, the standard deviation of the process the uncertainty associated with bias and a value for 2% of the tolerance for balance sensitivity. A value of 10 % of the nominal tolerance was also used to account for uncertainty associated with balance drift. Air buoyancy was considered negligible and was not included. The combined standard uncertainty is multiplied by a coverage factor  $k^*$  to provide an expanded uncertainty, which defines an interval having a level of confidence of approximately 95 %. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement. The expanded uncertainty is not to be confused with a tolerance limit for the user during application as appropriate for each measurement type.

*\*k found in table with measurement results*

### CONDITION OF ARTIFACTS

### AMMENDMENTS

### PROCEDURE USED

NIST SOP 8 - Recommended Standard Operating Procedure for Medium Accuracy Calibration of Mass Standards by Modified Substitution from NISTIR 6969: 2014 Edition

### ENVIRONMENTAL CONDITIONS

#### TEMPERATURE

20.4 °C

#### RELATIVE HUMIDITY

50.6 %

DATE RECEIVED: 3/8/2018

DATE TESTED: 3/12/2018

DATE OF REPORT: 3/12/2018

TEST PERFORMED BY: Anthony O'Brien

METROLOGIST

TEST APPROVED BY: Anthony O'Brien

METROLOGIST

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S/N

1341195

FRAGILE



# United States Department of Commerce National Institute of Standards and Technology

Certificate of Metrological Traceability For:

## West Virginia



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

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

### Scope

#### Mass Echelon III

- 25 kg to 1 mg
- 1000 lb to 0.001 lb
- 4 oz to 0.03125 oz

#### Weight Carts

- 5000 lb to 3000 lb

#### Volume Transfer, II

- 1000 gal to 5 gal
- 100 gal to 25 gal LPG

2018

A handwritten signature in black ink, appearing to read "Douglas A. Olson".

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

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

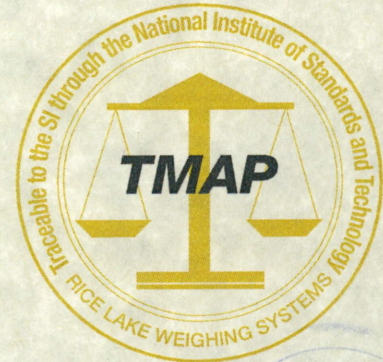
**Traceable Certificate Number:** 2717600  
**Contractor:** TK SCALES & SERVICE  
 9101 71ST ST NW  
 MOTT, ND 58644

**Purchase Order Number:**  
**Client:** TK SCALES & SERVICE  
 9101 71ST ST NW  
 MOTT, ND 58644

**Date Received:** 20 Mar 2018  
**Date Calibrated:** 24 Apr 2018 to 04 May 2018  
**Recall Date:** 24 Apr 2019  
**Temperature Range:** 20.31 °C to 22.09 °C  
**Pressure Range:** 727.84 mmHg to 735.41 mmHg  
**Relative Humidity Range:** 48 % to 53 %  
**Air Density Range:** 1.1454 mg/cm<sup>3</sup> to 1.1554 mg/cm<sup>3</sup>  
**NIST Certificate Number:** 684/286541-15 & 684/290551-18

Although there are two NIST numbers, one or both may apply  
**Calibrated By:** 28  
 Inter-comparison Method (WI05-0023, WI05-0094, WI05-0092)  
**Procedure:**

**Condition of Weights:** New  
**Description of Weights:** 50 lb to 2500 lb Cast Iron Grip Handle Weights, NIST Class F



Nominal Value	ID or S/N	As Found			As Left			Unc. (mg)	k	MPE* (mg)	Balance Used	Standard Set Used	Assumed Density (g/cm <sup>3</sup> )
		Conv. Mass	Conv. Mass Corr (mg)	MPE Pass	Conv. Mass	Conv. Mass Corr (mg)	MPE Pass						
50 lb	7IV2	50.00149	676	Y	50.00149	676	Y	270	2	2300	1630Q	D564Q	7.20
50 lb	7IV3	50.00160	726	Y	50.00160	726	Y	270	2	2300	1630Q	D564Q	7.20
50 lb	7IV4	50.00149	676	Y	50.00149	676	Y	270	2	2300	1630Q	D564Q	7.20
50 lb	7IV5	50.00187	846	Y	50.00187	846	Y	270	2	2300	1630Q	D564Q	7.20
500 lb	7IV6	500.0132	5975	Y	500.0132	5975	Y	3500	2	23000	851Q	1095Q	7.20
500 lb	7IV7	500.0103	4675	Y	500.0103	4675	Y	3500	2	23000	851Q	1095Q	7.20
500 lb	7IV8	500.0160	7275	Y	500.0160	7275	Y	3500	2	23000	851Q	1095Q	7.20
500 lb	7IV9	500.0044	1974	Y	500.0044	1974	Y	3500	2	23000	851Q	1095Q	7.20
500 lb	7IVA	500.0198	8975	Y	500.0198	8975	Y	3500	2	23000	851Q	1095Q	7.20
500 lb	7IVB	500.0077	3480	Y	500.0077	3480	Y	3500	2	23000	851Q	1095Q	7.20
2500 lb	7IVC	2500.017	7670	Y	2500.017	7670	Y	11000	2	110000	851Q	1095Q	7.20
2500 lb	7IVD	2500.054	24673	Y	2500.054	24673	Y	11000	2	110000	851Q	1095Q	7.20
2500 lb	7IVE	2500.008	3670	Y	2500.008	3670	Y	11000	2	110000	851Q	1095Q	7.20
2500 lb	7IVF	2500.065	29673	Y	2500.065	29673	Y	11000	2	110000	851Q	1095Q	7.20
2500 lb	7IVG	2500.032	14671	Y	2500.032	14671	Y	11000	2	110000	851Q	1095Q	7.20
2500 lb	7IVH	2500.046	20672	Y	2500.046	20672	Y	11000	2	110000	851Q	1095Q	7.20

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**Rice Lake Weighing Systems**

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 TEL: 715-234-9171 • FAX: 715-234-6967 • [www.ricelake.com](http://www.ricelake.com)

Definitions: <http://certs.ricelake.com/certs/DefinitionsV2.docx>

**Dated 04 May 2018**

*Dan Demers*  
 Dan Demers, Metrologist



The Uncertainty assigned to the Conventional Mass values are the result of the root-sum-square of the type A and type B components, calculated in accordance with NIST SOP 29 and ISO GUM, with a coverage factor (k), to express the expanded uncertainty with an approximate 95.45 % confidence level. This Report is not to be used to claim product certification, approval, or endorsement by NVLAP, NIST, A2LA or any agency of the U.S. Government. This document shall not be reproduced, except in full, without the written approval of Rice Lake Weighing Systems' Metrology Laboratory.



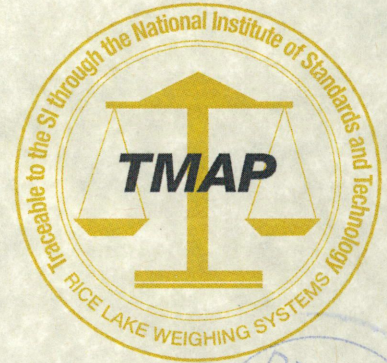
**Traceable Certificate Number:** 2717600A  
**Contractor:** TK SCALES & SERVICE  
 9101 71ST ST NW  
 MOTT, ND 58644

**Purchase Order Number:**  
**Client:** TK SCALES & SERVICE  
 9101 71ST ST NW  
 MOTT, ND 58644

**Date Received:** 20 Mar 2018  
**Date Calibrated:** 04 May 2018  
**Recall Date:** 04 May 2019  
**Temperature Range:** 21.79 °C to 22.29 °C  
**Pressure Range:** 729.07 mmHg to 729.59 mmHg  
**Relative Humidity Range:** 47 % to 52 %  
**Air Density Range:** 1.1407 mg/cm<sup>3</sup> to 1.1436 mg/cm<sup>3</sup>  
**NIST Certificate Number:** 684/286541-15

Although there are two NIST numbers, one or both may apply

**Calibrated By:** 28  
**Procedure:** Inter-comparison Method (WI05-0023)  
**Condition of Weights:** New  
**Description of Weights:** 1 mg to 5 kg Satin Finish Weight Set, NIST Class F, S/N 71VI



Nominal Value	ID or S/N	As Found			As Left			Unc. (mg)	k	MPE* (mg)	Balance Used	Standard Set Used	Assumed Density (g/cm <sup>3</sup> )
		Conv. Mass	Conv. Mass Corr (mg)	MPE Pass	Conv. Mass	Conv. Mass Corr (mg)	MPE Pass						
50	g	50.0040		4.0 Y	50.0040		4.0 Y	1.2	2	10	1813Q	D563Q	7.84
100	g	100.0078		7.8 Y	100.0078		7.8 Y	2.4	2	20	1813Q	D563Q	7.84
200	g A	200.0081		8.1 Y	200.0081		8.1 Y	4.8	2	40	1813Q	D563Q	7.84
200	g B	200.0103		10.3 Y	200.0103		10.3 Y	4.8	2	40	1813Q	D563Q	7.84
500	g A	500.0120		12.0 Y	500.0120		12.0 Y	8.4	2	70	1808Q	D563Q	7.84
500	g B	500.0163		16.3 Y	500.0163		16.3 Y	8.4	2	70	1808Q	D563Q	7.84
500	g C	500.0255		25.5 Y	500.0255		25.5 Y	8.4	2	70	1808Q	D563Q	7.84
500	g D	500.0211		21.1 Y	500.0211		21.1 Y	8.4	2	70	1808Q	D563Q	7.84
500	g E	500.0133		13.3 Y	500.0133		13.3 Y	8.4	2	70	1808Q	D563Q	7.84
1	kg	1.000025		25 Y	1.000025		25 Y	12	2	100	1808Q	D563Q	7.84
2	kg	2.000078		78 Y	2.000078		78 Y	24	2	200	1808Q	D563Q	7.84
2	kg	2.000050		50 Y	2.000050		50 Y	24	2	200	1808Q	D563Q	7.84
5	kg A	5.000163		163 Y	5.000163		163 Y	59	2	500	1808Q	D563Q	7.84
5	kg B	5.000157		157 Y	5.000157		157 Y	59	2	500	1808Q	D563Q	7.84

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**Dated 07 May 2018**

Dan Demers, Metrologist



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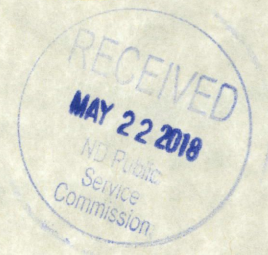
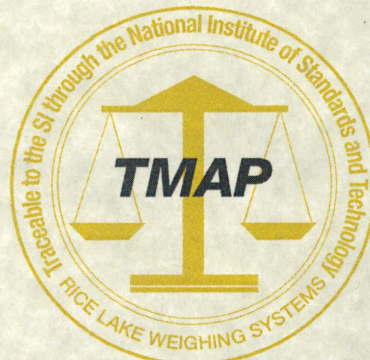
**Traceable Certificate Number:** 2717600A  
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Nominal Value	ID or S/N	As Found			As Left			Unc. (mg)	k	MPE* (mg)	Balance Used	Standard Assumed	
		Conv. Mass	Conv. Mass Corr (mg)	MPE Pass	Conv. Mass	Conv. Mass Corr (mg)	MPE Pass					Set Used	Density (g/cm <sup>3</sup> )
1 mg		1.022	0.022	Y	1.022	0.022	Y	0.012	2	0.10	1605Q	T535Q	7.95
2 mg		2.021	0.021	Y	2.021	0.021	Y	0.014	2	0.12	1605Q	T535Q	7.95
2 mg		2.027	0.027	Y	2.027	0.027	Y	0.014	2	0.12	1605Q	T535Q	7.95
5 mg		5.052	0.052	Y	5.052	0.052	Y	0.020	2	0.17	1605Q	T535Q	7.95
10 mg		10.078	0.078	Y	10.078	0.078	Y	0.025	2	0.21	1605Q	T535Q	7.95
20 mg		20.106	0.106	Y	20.106	0.106	Y	0.031	2	0.26	1605Q	T535Q	7.95
20 mg		20.061	0.061	Y	20.061	0.061	Y	0.031	2	0.26	1605Q	T535Q	7.95
50 mg		50.127	0.127	Y	50.127	0.127	Y	0.041	2	0.35	1605Q	T535Q	7.95
100 mg		100.070	0.070	Y	100.070	0.070	Y	0.051	2	0.43	1605Q	T535Q	7.95
200 mg		200.163	0.163	Y	200.163	0.163	Y	0.064	2	0.54	1605Q	T535Q	7.95
200 mg		200.097	0.097	Y	200.097	0.097	Y	0.064	2	0.54	1605Q	T535Q	7.95
500 mg		500.360	0.360	Y	500.360	0.360	Y	0.085	2	0.72	1605Q	T535Q	7.95
1 g		1.00003	0.03	Y	1.00003	0.03	Y	0.12	2	0.90	1761Q	D563Q	7.84
2 g		2.00008	0.08	Y	2.00008	0.08	Y	0.14	2	1.1	1761Q	D563Q	7.84
2 g		2.00031	0.31	Y	2.00031	0.31	Y	0.14	2	1.1	1761Q	D563Q	7.84
5 g		5.00053	0.53	Y	5.00053	0.53	Y	0.18	2	1.5	1761Q	D563Q	7.84
10 g		10.00058	0.58	Y	10.00058	0.58	Y	0.24	2	2.0	1761Q	D563Q	7.84
20 g		20.00147	1.47	Y	20.00147	1.47	Y	0.50	2	4.0	1813Q	D563Q	7.84
20 g		20.00127	1.27	Y	20.00127	1.27	Y	0.50	2	4.0	1813Q	D563Q	7.84

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