



Receipt Date: October 23, 2017  
Cal. Date: October 24, 2017  
Report Date: October 24, 2017

Report No.: 338341  
Serial No.: BN 979022  
Barcode: 201132

## Calibration Certificate

BNSF RAILROAD  
4515 KANSAS AVENUE  
KANSAS CITY, KS 66106-1124  
Contact: ANDREW BARTHEL  
Phone: 913-544-6852  
PO Number: NONE  
Procedure: MN SOP 13  
Technician ID: 11

Item(s) Submitted: 100,000 lb Test Car  
Manufacturer: Maxson  
Last Test Date: November 2, 2016  
Recent Repairs: New Brakes  
Condition: Good  
Temperature: 13.7 °C  
Pressure: 735.1 mmHg  
Relative Humidity: 40.1 %

Nominal Value (lb)	Value (lb)		NIST Class F Tolerance (lb)	U (lb) (k = 2)
	As Found	As Left		
100,000	99,997.6	99,997.6	10	4.4

Calibration Witnessed by: Mike Dunbar

The car listed above has been calibrated at the Master Scale House of the State of Minnesota, Department of Commerce Weights and Measures Division. This Master Scale is tested on an annual basis by the Federal Grain Inspection Program (FGIS) using standards traceable to NIST. Calibration documentation is available upon request.

The uncertainty value provided above has been calculated using historical data and FGIS calibration information. Conversion to SI unit: 1 lb = 0.45359237 kg.

Results apply to items identified in this report only.

Pete Whebbe  
*Pete Whebbe*  
Metrologist

Reviewed by:  
Erik Alfvin  
*Erik Alfvin*  
Metrologist

3 WM-17-449 Filed: 3/27/2018 Pages: 4  
 Calibration Report

Webster Scale, Inc.





Receipt Date: October 23, 2017  
Cal. Date: October 24, 2017  
Report Date: October 24, 2017

Report No.: 338342  
Serial No.: BNSF 979019  
Barcode: 201159

**Calibration Certificate**

BNSF RAILROAD  
4515 KANSAS AVENUE  
KANSAS CITY, KS 66106-1124  
Contact: ANDREW BARTHEL  
Phone: 913-544-6852  
PO Number: NONE  
Procedure: MN SOP 13  
Technician ID: 11

Item(s) Submitted 101,000 lb Rail Test Car  
Manufacturer: Unknown  
Last Test Date: November 9, 2016  
Recent Repairs: None  
Condition: Good  
Temperature: 14.3 °C  
Pressure: 735.1 mmHg  
Relative Humidity: 41.9 %

Nominal Value (lb)	Value (lb)		NIST Class F Tolerance (lb)	U (lb) (k = 2)
	As Found	As Left		
101,000	100,996.9	100,996.9	10.1	4.4

Calibration Witnessed by: Mike Dunbar

The car listed above has been calibrated at the Master Scale House of the State of Minnesota, Department of Commerce Weights and Measures Division. This Master Scale is tested on an annual basis by the Federal Grain Inspection Program (FGIS) using standards traceable to NIST. Calibration documentation is available upon request.

The uncertainty value provided above has been calculated using historical data and FGIS calibration information. Conversion to SI unit: 1 lb = 0.45359237 kg.

Results apply to items identified in this report only.

Pete Whebbe  
*Pete Whebbe*  
Metrologist

Reviewed by:  
Erik Alfvin  
*Erik Alfvin*  
Metrologist



COPY

14305 SOUTHCROSS DRIVE #150  
 BURNSVILLE, MN 55306-7008  
 MN.GOV/COMMERCE/  
 651.539.1555 FAX 651.539.1553  
 AN EQUAL OPPORTUNITY EMPLOYER



Receipt Date: June 1, 2017  
 Cal. Date: June 1, 2017  
 Report Date: June 1, 2017

Report No.: 337784  
 Serial No.: BN 979006  
 Barcode: 201342

**Calibration Certificate**

BNSF RAILROAD  
 4515 KANSAS AVENUE  
 KANSAS CITY, KS 66106-1124  
 Contact: ANDREW BARTHEL  
 Phone: 913-544-6852  
 PO Number: NONE  
 Procedure: MN SOP 13  
 Technician ID: 11

Item(s) Submitted: 82,000 lb Composite Rail Test Car  
 Manufacturer: Composite  
 Last Test Date: August 25, 2016  
 Recent Repairs: New Brakes and Coupler  
 Condition: Good  
 Temperature: 19.1 °C  
 Pressure: 739.5 mmHg  
 Relative Humidity: 42.6 %

Nominal Value (lb)	Value (lb)		NIST Class F Tolerance (lb)	U (lb) (k = 2)
	As Found	As Left		
82,000	81943.0	82001.0	8.2	1.9

Calibration Witnessed by: Mike Dunbar

The car listed above has been calibrated at the Master Scale House of the State of Minnesota, Department of Commerce Weights and Measures Division. This Master Scale is tested on an annual basis by the Federal Grain Inspection Program (FGIS) using standards, traceable to NIST, of equal nominal mass ( $\pm 16$  lb) to that of the test car. Calibration documentation is available upon request.

The uncertainty value provided above has been calculated using historical data and FGIS calibration information.  
 Conversion to SI unit: 1 lb = 0.45359237 kg.

Pete Whebbe  
  
 Metrologist

Reviewed by:  
 Erik Alfvin  
  
 Metrologist

# United States Department of Commerce

## National Institute of Standards and Technology

Certificate of Metrological Traceability For:

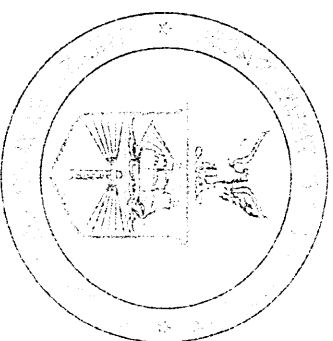
# Minnesota

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.

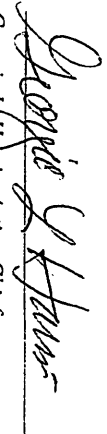
The Office of Weights and Measures Program assesses laboratories to NIST Handbook 143 - Program Handbook for State Weights and Measures Laboratories and ISO/IEC 17025:2005.

### Scope

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



2017

  
Georgia L. Harris, Acting Chief  
NIST Office of Weights and Measures

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

Amended: 2016-12-31  
Scope modified for 2017.