



Steve Troxler
Commissioner

**North Carolina Department of Agriculture
and Consumer Services**
Standards Division
Standards Laboratory

Stephen Benjamin
Director

NC Standards Laboratory Calibration Certificate

Submitted by: Porter Scales 1721 Lake Wheeler Rd. Raleigh, NC 27603	Date of Test: 4/24/2017
	Test Number: NC1704-145-W
	P.O. Number: 17148
	Page Number: 1 of 4

General Description: Ninety-one (91) individual weights
Set Serial Number: None
Manufacturer: Unknown
Material: Cast Iron

Item(s) Tested and Approved:						
# of Items	Nominal	Description	Tolerance	Measurement Uncertainty	<i>k</i> Coverage Factor	Serial Number(s) (Listed alphabetically)
91	50 lb	Weights	NIST Class F	280 mg	2.02	IS 01, IS 03, IS 04, IS 08, IS 10, IS 12, IS 13, IS 18, IS 19, IS 20, WB 001, WB 002, WB 004, WB 005, WB 009, WB 010, WB 011, WB 013, WB 014, WB 015, WB 016, WB 017, WB 018, WB 019, WB 020, WB 021, WB 022, WB 023, WB 024, WB 025, WB 026, WB 027, WB 028, WB 029, WB 030, WB 033, WB 034, WB 035, WB 038, WB 039, WB 040, WB 041, WB 047, WB 048, WB 049, WB 050, WB


NVLAP Lab Code 200495-0

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Form No.: NCM03 Revision Date: 1/5/17
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Item(s) Tested and Approved:						
# of Items	Nominal	Description	Tolerance	Measurement Uncertainty	<i>k</i> Coverage Factor	Serial Number(s) (Listed alphabetically)
						051, WB 052, WB 053, WB 054, WB 055, WB 056, WB 057, WB 058, WB 059, WB 060, WB 063, WB 065, WB 066, WB 067, WB 069, WB 070, WB 071, WB 072, WB 073, WB 074, WB 075, WB 076, WB 078, WB 081, WB 082, WB 083, WB 086, WB 087, WB 088, WB 089, WB 090, WB 091, WB 092, WB 093, WB 094, WB 096, WB 097, WB 098, WB 099, WB 101, WB 102, WB 103, WB 104, WB 105, WB 106

Tolerance: At the time of test, the above weights fall within the tolerance listed. Compliance to design specifications only applies to the tolerance class listed above.

Traceability: This certificate has been issued under the authority of the North Carolina Department of Agriculture & Consumer Services, Standards Division, pursuant to Chapters 81A and 119 of the General Statutes of the State of North Carolina. The items described above have been compared with the standards of the State of North Carolina, and are traceable to the National Institute of Standards and Technology, NIST via the test number above, and to the SI via NIST. All tests were performed at the North Carolina Standards Laboratory, 4040 District Drive, Raleigh, North Carolina 27607. Environmental conditions are maintained at a temperature of 18 °C to 27 °C and a relative humidity of 50 % ± 10 %.

Test Data: Actual test results for this calibration are reported on the attached NCDA&CS Standards Laboratory Test Data Sheet Supplement for NC Test Number NC1704-145-W. The complete report must include both this certificate and the data sheet supplement. The reported test results apply only to the items listed above.

Uncertainty Statement: The measurement uncertainty is calculated according to JCGM 100:2008, GUM 1995 with minor corrections, First edition, September 2008, "Evaluation of measurement data – Guide to the expression of uncertainty in measurement." The uncertainty reported is *k* (refer to the table above for *k* value) times the root sum square of the type A and B uncertainties, which represents a confidence level of 95.45 %. Uncertainty components evaluated include balance standard deviations, mass standard uncertainties, drift uncertainties, sensitivity uncertainties, bias, and absence of air buoyancy corrections.



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Magnetism: These weights have not been tested for magnetic properties. Since the effects are difficult to quantify, no magnetism components are included in the uncertainty budget. Weights are screened for magnetism only if erratic balance behavior is observed during calibration. If a significant magnetic field is found, the weight is rejected.

Condition of Item(s) Upon Receipt:

Good	Artifacts display some wear or other degradation.
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Test Method Used:

NC SOP 8, <i>Medium Accuracy Calibration of Mass Standards by Modified Substitution (August 2016 Ed)</i> , based on NISTIR 6969, " <i>Selected Laboratory and Measurement Practices and Procedures to Support Basic Mass Calibrations (2014 Ed)</i> " - SOP No. 8, <i>Medium Accuracy Calibration of Mass Standards by Modified Substitution (June 2015 Ed)</i> .
*Any deviations from or additions to the SOP have been reviewed and approved for use by laboratory management. These deviations are documented and filed in the laboratory files.

Standards Used:

Standards are continuously monitored by a measurement control program. Artifacts are recalibrated if drift, damage, wear or other detrimental condition is noted. Balances are used for comparisons only. No calibration is required.				
Working Standard	Working Standard Set Serial Number	Working Standard Test Number	Working Standard Calibration Date	Balance Used
50 lb ws	NCDA 260	NC1701-019-WD	1-12-2017	CC50002



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NC Standards Laboratory Calibration Certificate

Submitted by: Porter Scales 1721 Lake Wheeler Rd. Raleigh, NC 27603	Date of Test: 4/24/2017 Test Number: NC1704-145-W P.O. Number: 17148 Page Number: 4 of 4
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Next Appointment Scheduled for:

4/25/2018

We would appreciate feedback on your recent experience with our laboratory. Please complete our short online survey at www.ncagr.com/standard/survey.


Metrologist

4/24/2017
Date


Approved By



Laboratory Manager: Sharon Woodard Quality Manager: Robert Rogers
Metrologists: Van Hyder, Ashley Lessard, Sherry Teachey, Nicholas Cercone

Original Certificate has the NCDA Seal Embossed Above


NVLAP Lab Code 200495-0

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NCD&CS Standards Laboratory Test Data Sheet Supplement for the Test Number Listed Below

Company Name: Porter Scales
 Address: 1721 Lake Wheeler Rd.
 City, State, Zip: Raleigh, NC 27603
 General Description: Ninety-one (91) individual weights
 Representative: Tommy Albright
 Set Serial Number: None
 Material: Cast Iron
 Condition of Weights: Good

NC Test No: NC1704-145-W
 Purchase Order No: 17148
 Date Scheduled: April 21, 2017
 Date Received: April 21, 2017
 Date Tested: April 24, 2017
 Date Returned: April 24, 2017
 Next Appointment: April 25, 2018



NVLAP Lab Code 200495-0

Environmental Conditions at Time of Test		
	Beginning	Ending
Temperature (°C)	19.2	20.6
Relative Humidity (%)	53	54
Barometric Pressure (mmHg)	749.0	745.2

Line No	Weight Information		Tolerance Information		Balance Readings		Approximate Error				Uncertainty	Working Standard	Wk Std Cal Date	Balance Used	Standard Correction
	Serial Number	Nominal Mass	Tolerance Class	Full Tolerance	Before Adjustment	After Adjustment	As Found	In Tol?	As Left	In Tolerance?					
1	IS 01	50 lb	NIST Class F	2.3 g	-3.190 g	0.105 g	-3200 mg	ADJ	90 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
2	IS 03	50 lb	NIST Class F	2.3 g	-1.350 g	---	-1360 mg	Appd	-1360 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
3	IS 04	50 lb	NIST Class F	2.3 g	-0.260 g	---	-270 mg	Appd	-270 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
4	IS 08	50 lb	NIST Class F	2.3 g	-1.525 g	---	-1540 mg	Appd	-1540 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
5	IS 10	50 lb	NIST Class F	2.3 g	-0.705 g	---	-720 mg	Appd	-720 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
6	IS 12	50 lb	NIST Class F	2.3 g	-1.545 g	---	-1560 mg	Appd	-1560 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
7	IS 13	50 lb	NIST Class F	2.3 g	1.875 g	---	1860 mg	Appd	1860 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
8	IS 18	50 lb	NIST Class F	2.3 g	-1.000 g	---	-1010 mg	Appd	-1010 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
9	IS 19	50 lb	NIST Class F	2.3 g	-0.185 g	0.000 g	-200 mg	Appd	-10 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
10	IS 20	50 lb	NIST Class F	2.3 g	0.850 g	---	840 mg	Appd	840 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
11	WB 001	50 lb	NIST Class F	2.3 g	-1.830 g	---	-1840 mg	Appd	-1840 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
12	WB 002	50 lb	NIST Class F	2.3 g	-0.235 g	---	-250 mg	Appd	-250 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
13	WB 004	50 lb	NIST Class F	2.3 g	0.395 g	---	380 mg	Appd	380 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
14	WB 005	50 lb	NIST Class F	2.3 g	-2.630 g	0.065 g	-2640 mg	ADJ	50 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
15	WB 009	50 lb	NIST Class F	2.3 g	-0.650 g	---	-660 mg	Appd	-660 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
16	WB 010	50 lb	NIST Class F	2.3 g	-0.120 g	---	-130 mg	Appd	-130 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
17	WB 011	50 lb	NIST Class F	2.3 g	-1.720 g	---	-1730 mg	Appd	-1730 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
18	WB 013	50 lb	NIST Class F	2.3 g	3.440 g	0.085 g	3430 mg	ADJ	70 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
19	WB 014	50 lb	NIST Class F	2.3 g	-0.305 g	---	-320 mg	Appd	-320 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
20	WB 015	50 lb	NIST Class F	2.3 g	-1.650 g	---	-1660 mg	Appd	-1660 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
21	WB 016	50 lb	NIST Class F	2.3 g	-0.130 g	---	-140 mg	Appd	-140 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
22	WB 017	50 lb	NIST Class F	2.3 g	-0.700 g	---	-710 mg	Appd	-710 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
23	WB 018	50 lb	NIST Class F	2.3 g	-1.295 g	---	-1310 mg	Appd	-1310 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
24	WB 019	50 lb	NIST Class F	2.3 g	0.130 g	---	120 mg	Appd	120 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
25	WB 020	50 lb	NIST Class F	2.3 g	-2.055 g	0.085 g	-2070 mg	ADJ	70 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
26	WB 021	50 lb	NIST Class F	2.3 g	0.225 g	---	210 mg	Appd	210 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
27	WB 022	50 lb	NIST Class F	2.3 g	-2.895 g	0.020 g	-2910 mg	ADJ	10 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
28	WB 023	50 lb	NIST Class F	2.3 g	-1.385 g	---	-1400 mg	Appd	-1400 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
29	WB 024	50 lb	NIST Class F	2.3 g	-1.300 g	---	-1310 mg	Appd	-1310 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
30	WB 025	50 lb	NIST Class F	2.3 g	-1.035 g	---	-1050 mg	Appd	-1050 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
31	WB 026	50 lb	NIST Class F	2.3 g	-2.135 g	0.090 g	-2150 mg	ADJ	80 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
32	WB 027	50 lb	NIST Class F	2.3 g	0.100 g	---	90 mg	Appd	90 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
33	WB 028	50 lb	NIST Class F	2.3 g	-0.355 g	---	-370 mg	Appd	-370 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
34	WB 029	50 lb	NIST Class F	2.3 g	3.060 g	0.040 g	3050 mg	ADJ	30 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
35	WB 030	50 lb	NIST Class F	2.3 g	2.025 g	---	2010 mg	Appd	2010 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
36	WB 033	50 lb	NIST Class F	2.3 g	4.200 g	0.015 g	4190 mg	ADJ	0 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
37	WB 034	50 lb	NIST Class F	2.3 g	2.385 g	0.015 g	2370 mg	ADJ	0 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
38	WB 035	50 lb	NIST Class F	2.3 g	0.510 g	---	500 mg	Appd	500 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
39	WB 038	50 lb	NIST Class F	2.3 g	-1.830 g	---	-1840 mg	Appd	-1840 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
40	WB 039	50 lb	NIST Class F	2.3 g	-2.060 g	0.035 g	-2070 mg	ADJ	20 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
41	WB 040	50 lb	NIST Class F	2.3 g	-0.295 g	---	-310 mg	Appd	-310 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
42	WB 041	50 lb	NIST Class F	2.3 g	1.465 g	---	1450 mg	Appd	1450 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
43	WB 047	50 lb	NIST Class F	2.3 g	3.240 g	0.045 g	3230 mg	ADJ	30 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg

NCDA&CS Standards Laboratory Test Data Sheet Supplement for the Test Number Listed Below



Company Name: Porter Scales
 Address: 1721 Lake Wheeler Rd.
 City, State, Zip: Raleigh, NC 27603
 General Description: Ninety-one (91) individual weights
 Representative: Tommy Albright
 Set Serial Number: None
 Material: Cast Iron
 Condition of Weights: Good

NC Test No: NC1704-145-W
 Purchase Order No: 17148
 Date Scheduled: April 21, 2017
 Date Received: April 21, 2017
 Date Tested: April 24, 2017
 Date Returned: April 24, 2017
 Next Appointment: April 25, 2018

Environmental Conditions at Time of Test		
	Beginning	Ending
Temperature (°C)	19.2	20.6
Relative Humidity (%)	53	54
Barometric Pressure (mmHg)	749.0	745.2

Line No	Weight Information		Tolerance Information		Balance Readings		Approximate Error				Uncertainty	Working Standard	Wk Std Cal Date	Balance Used	Standard Correction
	Serial Number	Nominal Mass	Tolerance Class	Full Tolerance	Before Adjustment	After Adjustment	As Found	In Tol?	As Left	In Tolerance?					
44	WB 048	50 lb	NIST Class F	2.3 g	2.750 g	0.060 g	2740 mg	ADJ	50 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
45	WB 049	50 lb	NIST Class F	2.3 g	-1.855 g	---	-1870 mg	Appd	-1870 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
46	WB 050	50 lb	NIST Class F	2.3 g	4.785 g	0.090 g	4770 mg	ADJ	80 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
47	WB 051	50 lb	NIST Class F	2.3 g	-2.145 g	0.030 g	-2160 mg	ADJ	20 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
48	WB 052	50 lb	NIST Class F	2.3 g	-0.415 g	---	-430 mg	Appd	-430 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
49	WB 053	50 lb	NIST Class F	2.3 g	1.290 g	---	1280 mg	Appd	1280 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
50	WB 054	50 lb	NIST Class F	2.3 g	1.050 g	---	1040 mg	Appd	1040 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
51	WB 055	50 lb	NIST Class F	2.3 g	-0.255 g	---	-270 mg	Appd	-270 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
52	WB 056	50 lb	NIST Class F	2.3 g	4.045 g	0.030 g	4030 mg	ADJ	20 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
53	WB 057	50 lb	NIST Class F	2.3 g	4.260 g	0.025 g	4250 mg	ADJ	10 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
54	WB 058	50 lb	NIST Class F	2.3 g	-1.180 g	---	-1190 mg	Appd	-1190 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
55	WB 059	50 lb	NIST Class F	2.3 g	-1.560 g	---	-1570 mg	Appd	-1570 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
56	WB 060	50 lb	NIST Class F	2.3 g	0.855 g	---	840 mg	Appd	840 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
57	WB 063	50 lb	NIST Class F	2.3 g	3.145 g	0.050 g	3130 mg	ADJ	40 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
58	WB 065	50 lb	NIST Class F	2.3 g	-1.085 g	---	-1100 mg	Appd	-1100 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
59	WB 066	50 lb	NIST Class F	2.3 g	-2.145 g	0.065 g	-2160 mg	ADJ	50 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
60	WB 067	50 lb	NIST Class F	2.3 g	1.875 g	---	1860 mg	Appd	1860 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
61	WB 069	50 lb	NIST Class F	2.3 g	1.015 g	---	1000 mg	Appd	1000 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
62	WB 070	50 lb	NIST Class F	2.3 g	1.015 g	---	1000 mg	Appd	1000 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
63	WB 071	50 lb	NIST Class F	2.3 g	-1.140 g	---	-1150 mg	Appd	-1150 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
64	WB 072	50 lb	NIST Class F	2.3 g	-0.315 g	---	-330 mg	Appd	-330 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
65	WB 073	50 lb	NIST Class F	2.3 g	0.130 g	---	120 mg	Appd	120 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
66	WB 074	50 lb	NIST Class F	2.3 g	1.660 g	---	1650 mg	Appd	1650 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
67	WB 075	50 lb	NIST Class F	2.3 g	-1.460 g	---	-1470 mg	Appd	-1470 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
68	WB 076	50 lb	NIST Class F	2.3 g	-1.625 g	---	-1640 mg	Appd	-1640 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
69	WB 078	50 lb	NIST Class F	2.3 g	-2.405 g	0.080 g	-2420 mg	ADJ	70 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
70	WB 081	50 lb	NIST Class F	2.3 g	1.760 g	---	1750 mg	Appd	1750 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
71	WB 082	50 lb	NIST Class F	2.3 g	-1.985 g	---	-2000 mg	Appd	-2000 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
72	WB 083	50 lb	NIST Class F	2.3 g	-2.395 g	0.045 g	-2410 mg	ADJ	30 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
73	WB 086	50 lb	NIST Class F	2.3 g	-2.690 g	0.010 g	-2700 mg	ADJ	0 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
74	WB 087	50 lb	NIST Class F	2.3 g	-2.840 g	0.040 g	-2850 mg	ADJ	30 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
75	WB 088	50 lb	NIST Class F	2.3 g	-0.190 g	---	-200 mg	Appd	-200 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
76	WB 089	50 lb	NIST Class F	2.3 g	1.815 g	---	1800 mg	Appd	1800 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
77	WB 090	50 lb	NIST Class F	2.3 g	-2.675 g	0.005 g	-2690 mg	ADJ	-10 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
78	WB 091	50 lb	NIST Class F	2.3 g	-2.345 g	0.065 g	-2360 mg	ADJ	50 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
79	WB 092	50 lb	NIST Class F	2.3 g	-0.415 g	---	-430 mg	Appd	-430 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
80	WB 093	50 lb	NIST Class F	2.3 g	-0.125 g	---	-140 mg	Appd	-140 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
81	WB 094	50 lb	NIST Class F	2.3 g	-0.580 g	---	-590 mg	Appd	-590 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
82	WB 096	50 lb	NIST Class F	2.3 g	0.860 g	---	850 mg	Appd	850 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
83	WB 097	50 lb	NIST Class F	2.3 g	0.555 g	---	540 mg	Appd	540 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
84	WB 098	50 lb	NIST Class F	2.3 g	1.275 g	---	1260 mg	Appd	1260 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
85	WB 099	50 lb	NIST Class F	2.3 g	1.375 g	---	1360 mg	Appd	1360 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg
86	WB 101	50 lb	NIST Class F	2.3 g	1.695 g	---	1680 mg	Appd	1680 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg

NCDA&CS Standards Laboratory Test Data Sheet Supplement for the Test Number Listed Below



NVLAP Lab Code 200495-0

Company Name: Porter Scales
 Address: 1721 Lake Wheeler Rd.
 City, State, Zip: Raleigh, NC 27603
 General Description: Ninety-one (91) individual weights
 Representative: Tommy Albright
 Set Serial Number: None
 Material: Cast Iron
 Condition of Weights: Good

NC Test No: NC1704-145-W
 Purchase Order No: 17148
 Date Scheduled: April 21, 2017
 Date Received: April 21, 2017
 Date Tested: April 24, 2017
 Date Returned: April 24, 2017
 Next Appointment: April 25, 2018

Environmental Conditions at Time of Test		
	Beginning	Ending
Temperature (°C)	19.2	20.6
Relative Humidity (%)	53	54
Barometric Pressure (mmHg)	749.0	745.2

Line No	Weight Information		Tolerance Information		Balance Readings			Approximate Error				Uncertainty	Working Standard	Wk Std Cal Date	Balance Used	Standard Correction
	Serial Number	Nominal Mass	Tolerance Class	Full Tolerance	Before Adjustment	After Adjustment	As Found	In Tol?	As Left	In Tolerance?						
87	WB 102	50 lb	NIST Class F	2.3 g	1.930 g	---	1920 mg	Appd	1920 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg	
88	WB 103	50 lb	NIST Class F	2.3 g	1.640 g	---	1630 mg	Appd	1630 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg	
89	WB 104	50 lb	NIST Class F	2.3 g	-1.005 g	---	-1020 mg	Appd	-1020 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg	
90	WB 105	50 lb	NIST Class F	2.3 g	0.485 g	---	470 mg	Appd	470 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg	
91	WB 106	50 lb	NIST Class F	2.3 g	-2.325 g	0.025 g	-2340 mg	ADJ	10 mg	Approved	280 mg	50 lb ws	1-12-2017	CC50002	-10.3959 mg	
92					?	---	---	?	---	?	---	---	---	---	---	
93					?	---	---	?	---	?	---	---	---	---	---	

The "As Found" value for the weight reflects the condition of the weights as they were delivered for test. This condition does not necessarily represent the "As Used" condition of the weights if they have been cleaned, painted, or damaged in shipment.

These weights have not been tested for magnetic properties. Since the effects are difficult to quantify, no magnetism components are included in the uncertainty budget. Weights are screened for magnetism only if erratic balance behavior is observed during calibration. If a significant magnetic field is found, the weight is rejected.

This data sheet has been issued under the authority of the North Carolina Department of Agriculture & Consumer Services, Standards Division, pursuant to Chapters 81A and 119 of the General Statutes of the State of North Carolina.

Date	Metrologist	Work Completed	Date	Metrologist	Work Completed
4/21/2017	slt	Received weights			
4/21/2017	ael/ngc	Began testing weights			
4/24/2017	ael/ngc	Finished testing weights and returned weights			

Weights Approved 91
Weights Adjusted 26
Weights Rejected 0

METROLOGIST: Ashley Date: 4/24/2017 RECEIVED BY: Luca Date: 4.25.17 RETURNED BY: _____