



National Council on Weights and Measures

"That Equity May Prevail"

National Type Evaluation Program Overview



National Council on Weights and Measures

"That Equity May Prevail"

But First, the New NCWM Headquarters





9011



NATIONAL COUNCIL ON WEIGHTS AND MEASURES

NATIONAL TYPE EVALUATION PROGRAM















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PERSONNEL
ONLY





National Council on Weights and Measures

"That Equity May Prevail"

An Overview of the National Type Evaluation Program



What is The National Type Evaluation Program?

The National Type Evaluation Program (NTEP) is:

- A program operated by the NCWM
- Managed by:
 - Administrator and the NCWM Coordinator
- Supported by 4 brick and mortar laboratories
 - Nebraska, Ohio, California, and USDA (Kansas City, KS)
- Supported by 5 field evaluators (4 with NTEP & 1 with a State)



The National Type Evaluation Program. Why?

- Was first discussed in the late 1970's
- The doors opened in 1986
- Single source for device certification, replacing State by State certification
- Slow getting started but today is required in 48 States and District of Columbia
- Has issued over 5300 Certificates of Conformance



What is The National Type Evaluation Program? -continued-

The Program reports to the NTEP Committee which is a subset of the NCWM Board of Directors and has the responsibility for:

- Oversight of the program
- Provides final review and approval of recommendations to amend *NCWM Publication 14, Technical Policy, Checklists and Test Procedures*
- Provides recommendations to the NCWM Board of Directors for amendments to *NCWM Publication 14 Administrative Policy*



What is The National Type Evaluation Program? -continued-

The NTEP Committee also addresses NCWM's involvement in:

- International standards development
- Agreements related to type evaluation and certification
 - OIML-Certification System (OIML-CS)
 - Signed agreement to be a utilizer of load cell test data.
 - Has representation on the OIML-CS Review Committee



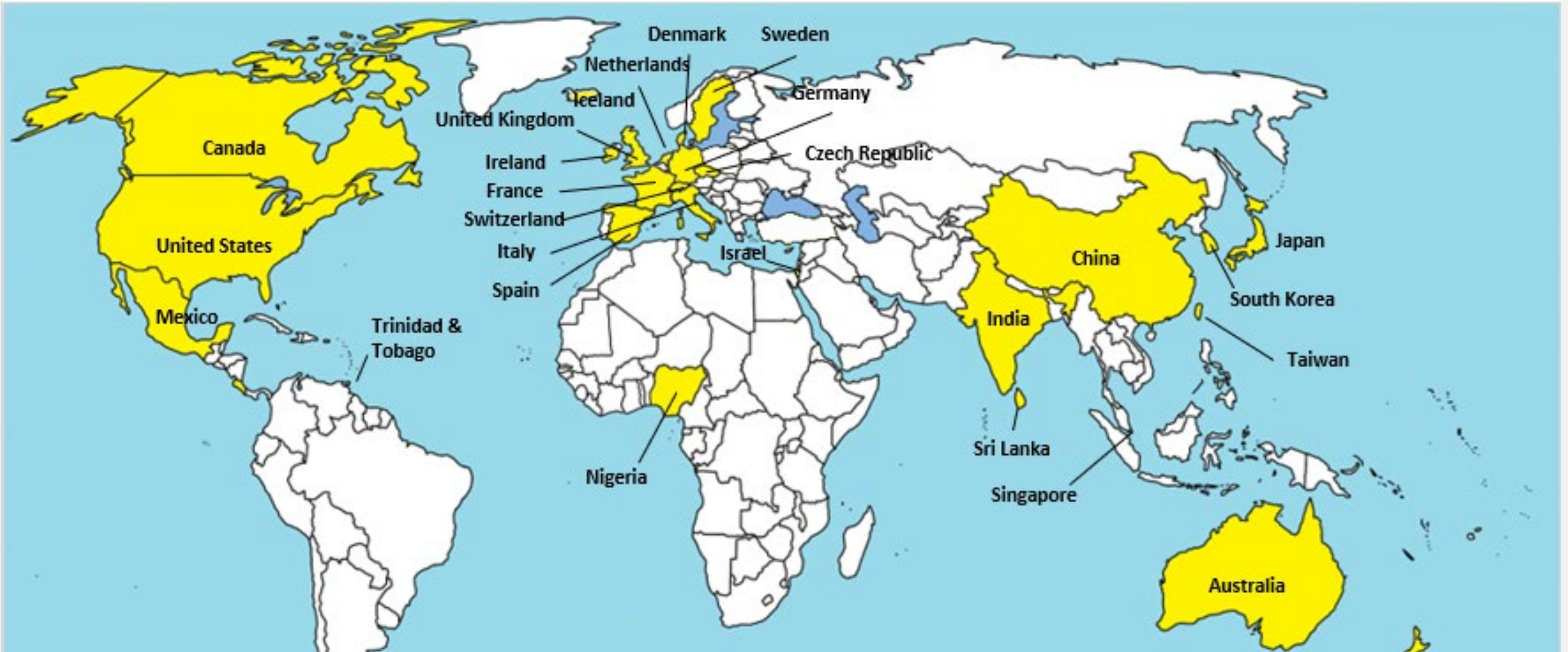
What is The National Type Evaluation Program? -continued-

- Mutual Recognition Agreement (MRA) with Measurement Canada

Fuel Dispensers	Scales
• Gasoline and Diesel Dispensers • High-speed Dispensers • Gasoline and Diesel Meters Intended to be Used in Fuel Dispensers and Truck Refuellers Only	• Electronic Computing and Non-computing Bench and Floor Scales with a Capacity up to 1000 kg (2000 lb) • Separate Weighing/Load Receiving Elements with a Capacity of up to 1000 kg (2000 lb) • Separate Electronic Indicators (except those that are "software based"; i.e., programmed by downloading parameters) • Mechanical Scales up to 10,000 kg (20,000 lb)



Where is our Customer Base





What is the Role of NTEP?

- Provide type evaluations and certification services for many different weighing and measuring device types (All identified in Handbook 44)
- Provides technical support to NTEP Sectors and Work Group meetings
- Publishes the checklist and test procedures to support device evaluation testing (These are called Publication 14)
- Provides technical advisors to the National Specifications and Tolerances Committee
- Operates the Verified Conformity Assessment Program (VCAP)



NTEP Evaluation Process – Start to Finish

1. Receive an application for device evaluation
2. The application is reviewed for accuracy and if accepted;
 - a. Control Number is assigned (Internal project tracking number)
 - b. Evaluation is assigned to a Laboratory or Field Evaluator
 - c. Customer is notified and given the evaluators contact information
3. The evaluator and the applicant work out the details of the device testing schedule
4. Device is tested
5. A draft Certificate of Conformance is written and approved by the applicant
6. The Certificate of Conformance is reviewed for accuracy and consistency and posted to the NTEP Certificate Search database



NTEP Technical Policy by Device Type

NTEP has technical policies that guide the evaluator through the selection of samples for evaluation that ends up with the NTEP certification of a wider range of devices in the family

For example: a manufacturer may want NTEP certification for a family of scales that are of the same design but differ in platform size, capacity and verification scale interval size



NTEP Technical Policy by Device Type

Let's look at an example:

Model	Capacity (lb)	Interval Size (lb)	Platform Size
ABC-6	6	0.002	6" x 6"
ABC-15	15	0.005	9" x 9"
ABC-30	30	0.01	18" x 18"
ABC-60	60	0.02	18" x 24"
ABC-120	150	0.05	18" x 30"
ABC-120	150	0.05	24" x 30"

NTEP does not want to evaluate each model, however; we do want to evaluate the 'worst' conditions to have confidence in certifying all models



NTEP Technical Policy for Complete Scales

- a. The lowest capacity and the highest capacity
- b. The largest platform area for each of the capacities submitted
- c. The most resolution (highest number of verification scale intervals)
- d. The smallest scale verification scale interval value (e)

Model	Capacity (lb)	interval Size (lb)	Platform Size	Number of Intervals
ABC-6	6	0.002	6" x 6"	3000
ABC-15	15	0.005	9" x 9"	3000
ABC-30	30	0.01	18" x 18"	3000
ABC-60	60	0.02	18" x 24"	3000
ABC-120	150	0.05	18" x 30"	3000
ABC-120	150	0.05	24" x 30"	3000



NTEP Technical Policy for Complete Scales

- a. The lowest capacity and the highest capacity
- b. The largest platform area for each of the capacities submitted
- c. The most resolution (highest number of verification scale intervals)
- d. The smallest scale verification scale interval value (e)
- e. Not to exceed a capacity range of 10 to 1

Model	Capacity (lb)	Interval Size (lb)	Platform Size	Number of Intervals
ABC-6	6	0.002	6" x 6"	3000
ABC-15	15	0.005	9" x 9"	3000
ABC-30	30	0.01	18" x 18"	3000
ABC-60	60	0.02	18" x 24"	3000
ABC-120	150	0.05	18" x 30"	3000
ABC-120	150	0.05	24" x 30"	3000



NTEP Technical Policy for Non-Modular Vehicle Scales

Non-Modular Vehicle Scales (Weighing/Load Receiving Element):

- a. Nominal **capacities** up to 135% of evaluated capacity
- b. **Widths** up to 120% of the width of the platform tested (limited to 12')
- c. **Lengths** no shorter than 7' and up to 150% of the length of the platform tested
- d. A **span** between sections of not more than 20% greater than the equipment evaluated
- e. **Concentrated Load Capacities** (CLC) from 50% to 100% of the CLC value tested
- f. Limited to the **platform material** evaluated (Concrete, Steel)



NTEP Technical Policy for Modular Vehicle Scales

Modular Vehicle Scales (Weighing/Load Receiving Element):

- a. Nominal **capacities** not more than 1.5 times CLC for a two-section scale to 135% of capacity of the device evaluated
- b. Platform **lengths** no shorter than 7'. Increased lengths for scales with two or more modules are not restricted as long as the $v_{\min}$ relationship formula is satisfied
- c. **Span(s)** between sections which are not more than 20% greater than the span of the largest two-section, four load-cell module evaluated
- d. **Widths** up to 120% of the width of the platform tested (limited to 12')
- e. **Platform construction and material** similar to that of the device evaluated
- f. **Module connection type** will be limited to the original type evaluated



NTEP Technical Policy for Round Hopper Scales

Cylindrical Cone Bottom Tank or Hopper:

- a. Weighing **capacities** from 20% to 125% of the evaluated capacity
- b. Tank or hopper **height** from 50% to 125% of the height of the evaluated device
- c. Tank or hopper **diameter** from 50% to 110% of the diameter of the evaluated device
- d. Tank or hopper **construction and materials** similar to that of the equipment evaluated
- e. **Number of load supports** equal to or greater than the number of supports in the device submitted for evaluation



NTEP Technical Policy for Rectangular Hopper Scales

Rectangular Tank or Hopper:

- a. Weighing **capacities** from 20% to 125% of the evaluated capacity
- b. Tank or hopper **height** from 50% to 125% of the height of the evaluated device
- c. Tank or hopper **length** from 50% to 110% of the length of the evaluated device
- d. Tank or hopper **width** from 50% to 110% of the width of the evaluated device
- e. Tank or hopper **construction and materials** similar to that of the equipment evaluated
- f. **Number of load supports** equal to or greater than the number of supports in the device submitted for evaluation



Evaluations

How is it decided if the evaluation will be performed in the field or in the laboratory



Evaluations

- What is the devices capacity?
- Does the device fit into a walk-in temperature chamber?





Evaluations

That statement is true in its purest form. However, there are NTEP guidelines to help us make the proper determination

Device Type	Temperature Accuracy ⁷	Temperature Zero Drifts	Barometric Pressure	Warm-up Time	Voltage ⁴	Power Interruption ⁵	Time Dependence
Scales ≤ 2000 lb	X	X	X ¹	X	X	X	X
Scales ≥ 2000 lb	X ²	X ²	X ²	X	X	X	X ²
ECR's Computers, Bulk-weigher Controllers (without A/D)						X	
Printers						X	
Dials (spring)	X	X					X
Leaver/beam Scales and Pendulum Dials							
Weighing/ Load-Receiving Elements	X	X	X ¹				X
Indicating Element ⁶	X	X		X	X	X	
Class II Scales	X	X		X ³	X	X	X
Load Cells							
Canister-Type	X	X	X ¹				X
Hydraulic	X	X					X
All Others	X	X					X

¹ Testing is limited to some canister load cells.

² Compliance with influence factors requirements will be determined according to existing NTEP policy.

³ Test limited to power switch only, not to initial plug-in of the device.

⁴ Voltage test is 130 and 100 VAC and low battery test on DC. See Checklists and Test Procedures, Section 61.

⁵ Power interruption is pulling the plug for 10 seconds. See Checklists and Test Procedures, Section 19.

⁶ Indicating elements processing only digital information do not have to be tested for compliance with the influence factors.

⁷ Compliance with temperature requirements by NTEP is limited to temperatures that are no lower than -10 °C and no higher than 40 °C.

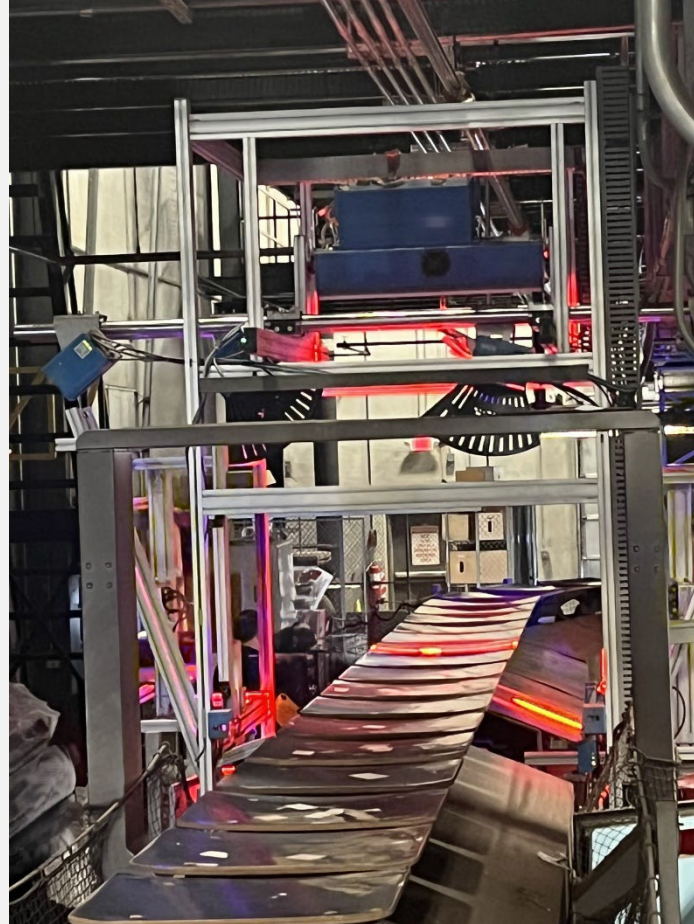


Evaluations

- For devices that do not require temperature testing or are too large to fit into a temperature chamber
 - The individual components such as the indicating element and the load cell(s) must be traceable to an NTEP Certificate of Conformance (which means the individual components have undergone temperature testing)
 - The device evaluation is then performed in the field



Field Evaluation - Photo's



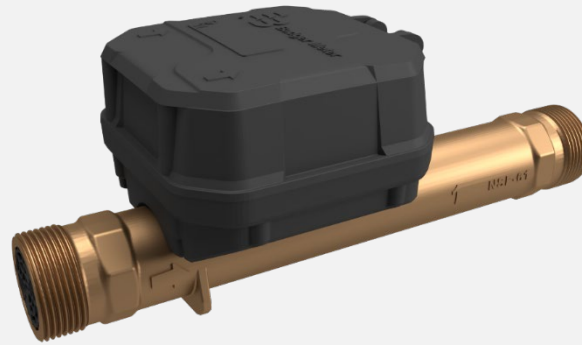


Field Evaluation - Photo's





Field Evaluation - Photo's





Laboratory Evaluations

NTEP Laboratory, Lincoln, NE



Our New Laboratory!





Tools of the Trade

Weight Kit, Accuracy Class 0

1 mg to 1 kg





Tools of the Trade

Weight Kit, Accuracy Class 5

0.001 to 30 lb and kg 10 mg to 10 kg





Tools of the Trade

Cast Iron Weights, Accuracy Class 6

25 to 1000 lb and 10 to 500 kg



In the background
is Don's coffee
dispenser



Tools of the Trade

Large Test Weight Storage and Loading Dock





Tools of the Trade

Granite Tables and Testing Equipment



Floor isolated tables for testing
Class I and II scales



Load Cell Simulator, Variac (AC voltage variation),
DC voltage Supply



Tools of the Trade

View from Small Capacity Lab Side



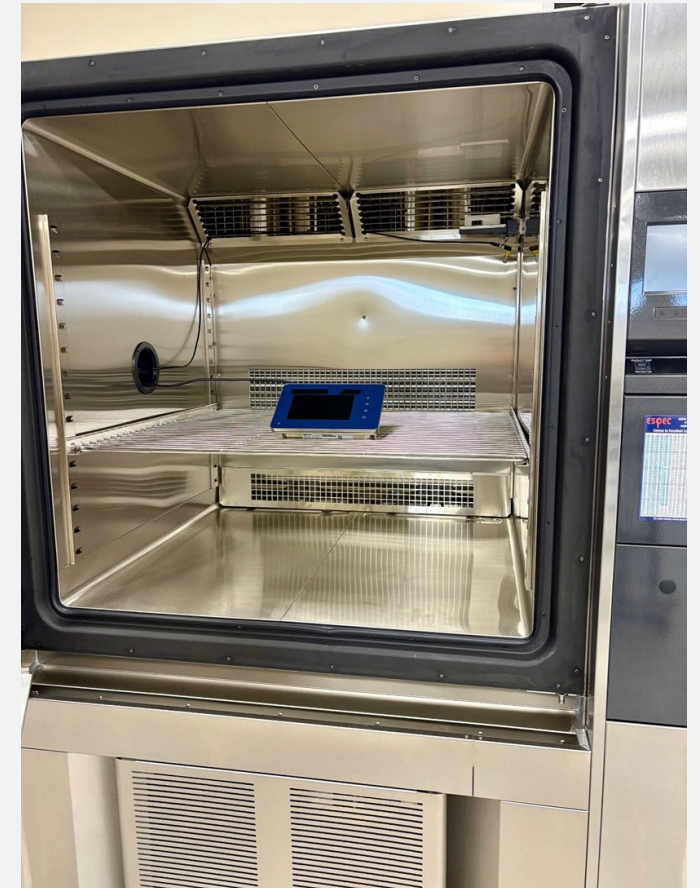


Tools of the Trade

Small Temperature Chamber



- Capacity - 32 Cubic Feet
- Temp Range: -35°C to +180°C
- Humidity Range: 10 to 98% RH





Tools of the Trade

Large (walk-in) Temperature Chamber

View from Small Capacity Lab Side





Tools of the Trade

Large (walk-in) Temperature Chamber

View from Large Capacity Lab Side



- Capacity - 1082 Cubic Feet
- Temp Range: -35°C to +85°C
- Humidity Range: 10 to 98% RH
- Upgraded Floor: 900 lb psf



Tools of the Trade

Large, Medium, and Small Permanence Testers



Used to apply a load 100 000 times



NTEP Certificate of Conformance

The end product is a
Certificate of Conformance

NATIONAL TYPE EVALUATION PROGRAM															
<i>Certificate of Conformance</i> <i>for Weighing and Measuring Devices</i>															
For: Indicating Element Digital Electronic Models: AD-4405, AD-4406, AD-4406A, AD-4407, AD-4407A Range: 10 000 Accuracy Class: III / III L	Submitted By: A&D Engineering 1756 Automation Parkway San Jose, CA 95131 Tel: 408-263-5333 Contact: Jerry Wang Email: jwang@adonline.com Website: www.adweighing.com														
Standard Features and Options A label stating, "The counting feature is not legal for trade" is attached near the weight display for those models with this function <table border="0"><tr><td>Automatic zero setting mechanism (AZSM)</td><td>RS-232 serial interface</td></tr><tr><td>Initial zero setting mechanism (IZSM)</td><td>Multi-interval capability</td></tr><tr><td>Semi-automatic (push-button) zero</td><td>AC/DC adapter</td></tr><tr><td>Semi-automatic (push-button) tare</td><td>Center of zero annunciator</td></tr><tr><td>Gross/net indication</td><td>Stable annunciator</td></tr><tr><td>Vacuum fluorescent display (Models AD-4405, AD-4407, AD-4407A)</td><td>Stainless steel enclosure (Model AD-4407, AD-4407A)</td></tr><tr><td>Liquid crystal display (Model AD-4406, AD-4406A)</td><td></td></tr></table> Options: • DC power supply and DC battery operation (Model AD-4406, AD-4406A) • Printer • Integral printer (Model AD-4405) Temperature Range: -10 °C to 40 °C (14 °F to 104 °F) This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.		Automatic zero setting mechanism (AZSM)	RS-232 serial interface	Initial zero setting mechanism (IZSM)	Multi-interval capability	Semi-automatic (push-button) zero	AC/DC adapter	Semi-automatic (push-button) tare	Center of zero annunciator	Gross/net indication	Stable annunciator	Vacuum fluorescent display (Models AD-4405, AD-4407, AD-4407A)	Stainless steel enclosure (Model AD-4407, AD-4407A)	Liquid crystal display (Model AD-4406, AD-4406A)	
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 Brett Gurney Chairman, NCWM, Inc.	 James Cassidy Committee Chair, NTEP Committee Issued: December 11, 2018														
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NTEP Certificate of Conformance

A Certificate of Conformance or CC consists of up to 14 parts, however, There are 6 parts that are very useful when performing field inspections.

1. "For:" box

Certificate Number: 04-034A1
Page 1 of 2


NATIONAL TYPE EVALUATION PROGRAM
Certificate of Conformance
for Weighing and Measuring Devices

For: Indicating Element Digital Electronic Models: AD-4405, AD-4406, AD-4406A, AD-4407, AD-4407A Mass: 10 000 Accuracy Class: III / III L	Submitted By: A&D Engineering 1756 Automation Parkway San Jose, CA 95131 Tel: 408-263-5333 Contact: Jerry Wang Email: jwang@adonline.com Website: www.adweighing.com
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Standard Features and Options

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--	--

Options:

- DC power supply and DC battery operation (Model AD-4406, AD-4406A)
- Printer
- Integral printer (Model AD-4405)

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

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Chairman, NCWM, Inc.


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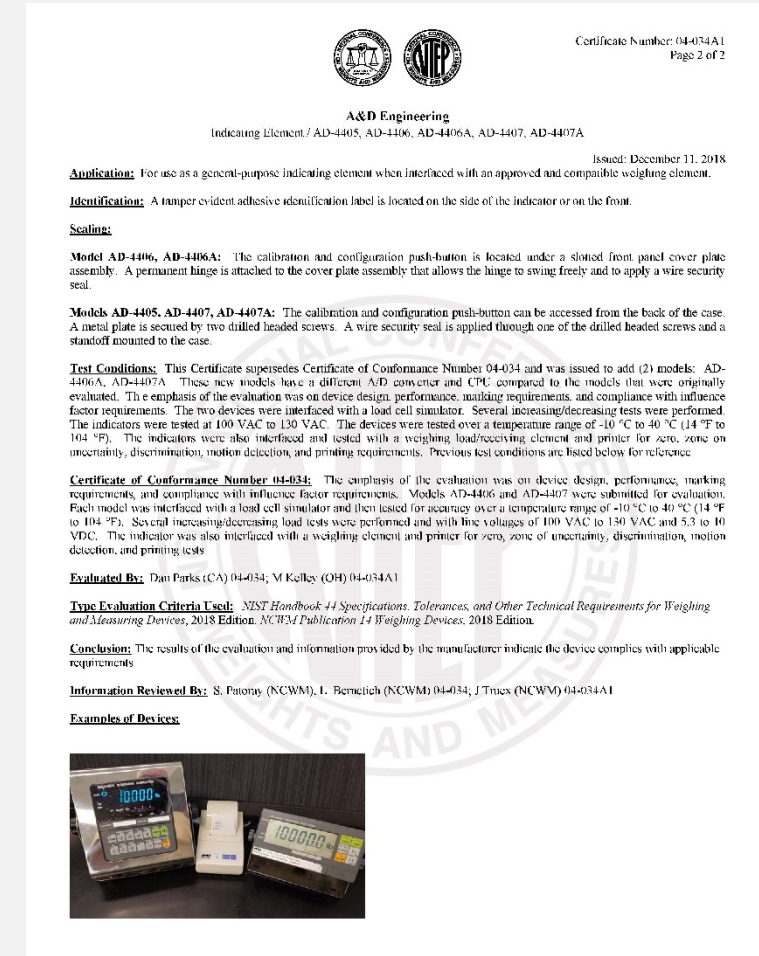
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1. "For:" box
2. "Submitted By:" box
3. "Standard Features and Options"
4. "Application" box

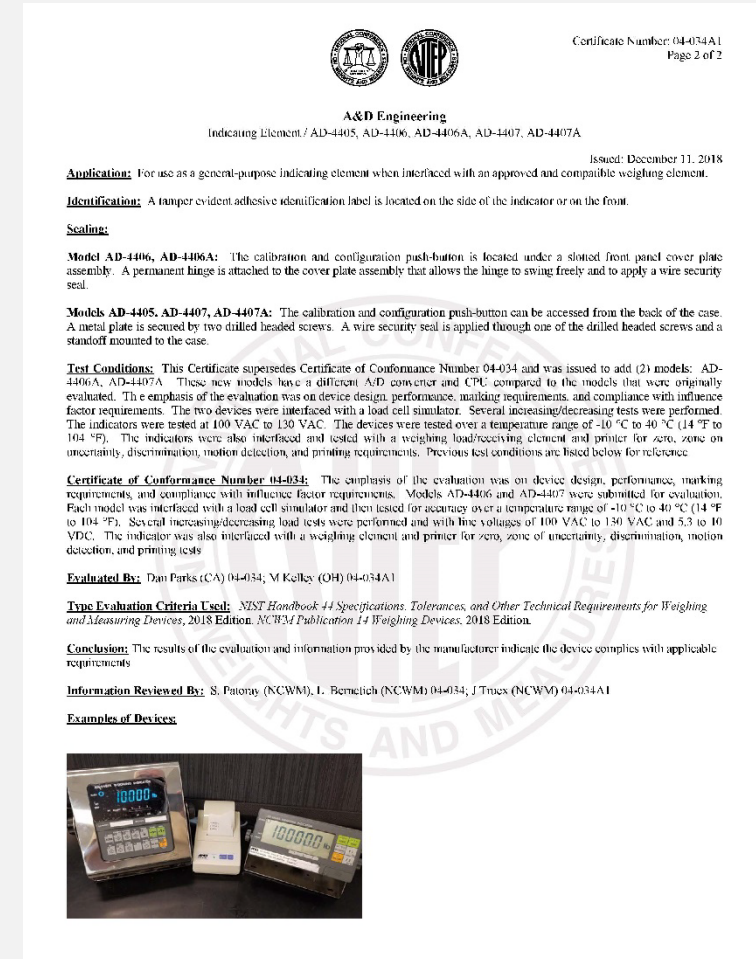




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2. "Submitted By:" box
3. "Standard Features and Options"
4. "Application" box
5. "Sealing" box

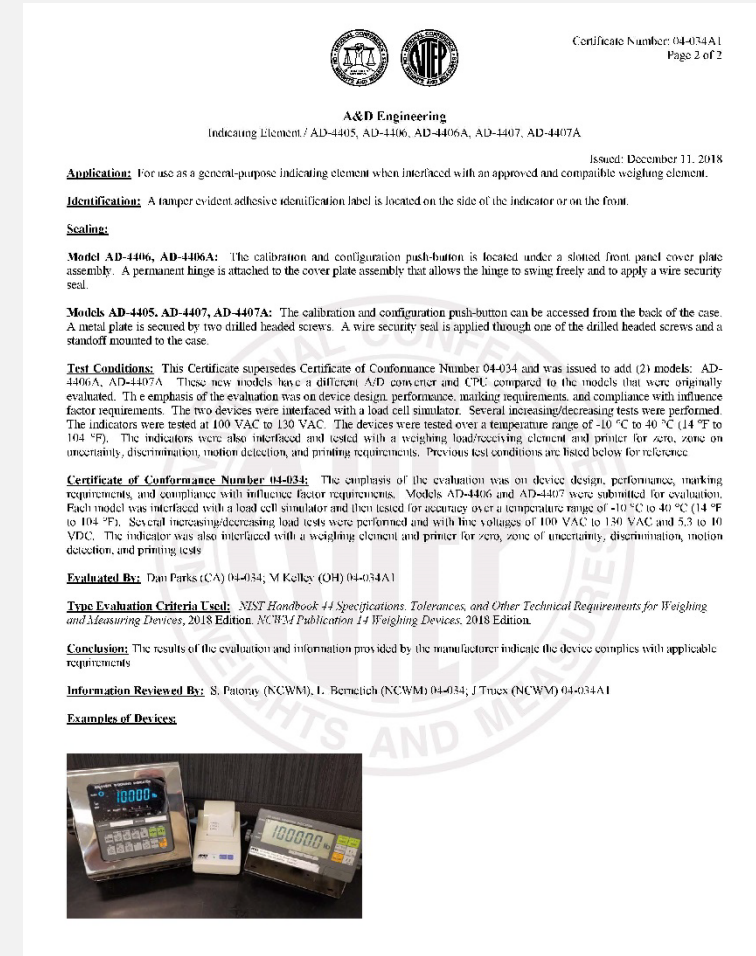




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1. "For:" box
2. "Submitted By:" box
3. "Standard Features and Options"
4. "Application" statement
5. "Sealing" statement
6. "Examples of Device:"





NTEP Certificate of Conformance

Where Can I Find A Certificate of Conformance

All Certificates of Conformance can be downloaded from the NCWM web site at:

[NTEP Certificates of Conformance Database Search | NCWM](#)



NTEP Certificate of Conformance

When on the site, enter the appropriate information into any of the available fields and click on the “SEARCH” button. When the search is complete a link is available to download a PDF version of the certificate.

The screenshot shows the NCWM website's search interface. At the top is the NCWM logo and a search bar. Below the logo is a navigation menu with links: NTEP, MEETINGS, COMMITTEES, RESOURCES, TRAINING & EXAMS, ABOUT, WOMEN IN W & M, and a JOIN MEMBERSHIP button. The main heading is "NTEP Certificates of Conformance Database Search". A "Pro Tip!" message states: "To ensure the broadest search, start with simply entering the CC Number or Manufacturer. Partial names, certificate or model numbers will help you expand your search." Below this are input fields for CC Number (with a placeholder "XX-YYY"), Status (a dropdown menu with "Any" selected), Manufacturer (a dropdown menu with "Enter or Select" selected), Device Type (a dropdown menu with "Enter or Select" selected), Application (a dropdown menu with "Enter or Select" selected), and Model (a dropdown menu with "Enter or Select" selected). There is also a "Keyword" search bar. A large blue "SEARCH" button is at the bottom right of the form. At the very bottom, there is a footer with contact information and a "Reset Entries" link.

NCWM

Search

LOGIN | REGISTER

NTEP MEETINGS COMMITTEES RESOURCES TRAINING & EXAMS ABOUT WOMEN IN W & M JOIN MEMBERSHIP

NTEP Certificates of Conformance Database Search

Pro Tip! To ensure the broadest search, start with simply entering the CC Number or Manufacturer. Partial names, certificate or model numbers will help you expand your search.

CC Number ⁱ Status ⁱ Manufacturer Device Type Application Model

XX-YYY Any Enter or Select Enter or Select Enter or Select Enter or Select

Keyword

SEARCH

ⁱ For additional assistance, you can [download our How To Guide](#) or contact NCWM at (402) 434-4880 or at info@ncwm.com. [Reset Entries](#)

Show

10 Items ▼ [PRINT RESULTS](#) 1 Results scroll right to view more ↔

Company	Model	CC Number	Status	Status Date	Device Type	Application
Hope Technologic (Xiamen) Co. Ltd.	NB Series	22-001	Active	01/06/2022	Load Cell	Digital Electronic



Thank you for your time this morning

Jeff Gibson

NTEP Administrator

Ph: 740.507. 6343

Email: jeff.gibson@ncwm.com

Brian Maser

NTEP Evaluator

Ph: 402.434.4878

Email: brian.maser@ncwm.com

Questions?