



Australian Government  
Department of Industry,  
Science and Resources

National  
Measurement  
Institute

# Pre-market surveillance pilot project (Conformity to type)

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# CTT background and overview

- OIML D 34:2019 Conformity to Type (CTT) – Pre-market conformity assessment of measuring instruments
  - Defines CTT as: conformity assessment procedure focused on the assessment of measuring instruments to give assurance that manufactured (or production) instruments meet the approved type
- Quality assurance of the production process
  - Manufacturing process audits
  - Quality system audits
- Measuring instrument assessment
  - Verification
  - Assessment/testing of newly manufactured instruments

# Overview of Pilot Program

## Objectives

- risks of non-conformance with approved type (pre-market entry)
- logistics of conducting testing and sharing results
- potential benefits of an on-going regional program

## Work to date

- Instruments sourced within Australia
- Testing done in Australia

## Future

- Continue pilot testing
- Welcome regional participation
- Enhance measurement laws

# Pilot program – kinds of instruments

- Water meters
- Multi-range scale (NAWI)
- Load cell
- Indicator
- Fuel dispenser (dispenser with meter only)
- Fuel pump (dispenser with pump/air eliminator)
- Fuel meter (meter only)

# Pilot program – outcomes

- Non-compliance were identified with water meters
- Some would be identified by verification, e.g. accuracy
- Some would not, e.g. durability
- Manufacturer asked to please explain
- Issues were identified with storage and transport
  - Length and conditions of storage

# Pilot program – outcomes

- Non-compliances were identified on Multi-range scale (NAWI)
- Failed Temperature and Humidity testing
- Same issues were identified when first tested in 2000
- Agent was informed of findings and asked if we could contact manufacturer directly
- Agent agreed
- Manufacturer was asked to please explain!

# Lessons – identifying high risk

- Pattern approval data
- Verification data
- Number of instruments in use
- Field inspection data
- Location
  - Temperature
  - Humidity
  - Electrical disturbances etc

# Lessons – other factors

- Storage of measurement pre-market
  - long storage
  - conditions of storage
- Transport
  - Shock, vibration
  - Other conditions e.g. humidity/moisture



# Regional

- Welcome regional participation
- Benefits:
  - Reduce repeat testing in region
  - Sharing of capability

**Thank you.**

**Questions?**