

Meter Center & Technician Update



Field Service Advisory Committee
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Audit Definitions

Mandatory

- Regularly scheduled audit conducted during the centering month
- Current audit schedules are included in your folder

Discretionary

- Deemed necessary by either the auditor or provider when
 - New location for meter center
 - Reconstruction or redesign of meter center
 - New meter technician(s)
 - New procedure(s)
 - New calibration wand (if moving from closed jar-to-jar system)
 - Change in vacuum pump/source
 - Change in receiving jar/vessel

Meter centers are responsible for all costs with discretionary audits.

Auditing Guidelines for Meter Centers & Techs

- Certification for meter centers is procedure specific
 - Standard Flow Test Method
 - Fast Flow Test Method
 - Dual Meter Test Method
 - Weight Test Method (Portable Scales)
- Certification for meter technicians is model specific

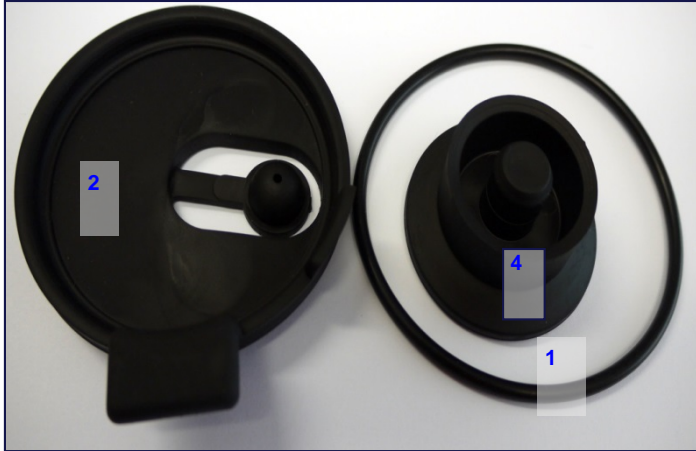
Changes in Auditing Guidelines

- No proposed changes in guidelines from the field.
- *Auditing Guidelines for Meter Centers and Technicians* was reviewed and rewritten in 2019 and approved at 2019 FSAC meeting, effective January 1, 2020.
- All FOSS Milko-Scope II meters have been retired from active service in 2019.
- Still significant number of older Tru-Test standard bore (yellow) meters in service – need to have a business plan to retire these meters.

Certified DHI Portable Meters – 2019

Model	Model	2015	2016	2017	2018	2019
FOSS	Milko-Scope	31	33	32	31	0
Tru-Test	Auto Sampler (SB & WB Models)	16,884	16,903	15,784	16,186	16,344
Tru-Test	Economy (SB)	1,313	1,097	643	612	534
Tru-Test	Electronic Milk Meter	450	550	542	537	543
Tru-Test	Ezi-Test (SB & WB Models)	8,917	8,648	7,748	7,512	6,658
Tru-Test	Farmer (SB)	2,993	2,793	1,835	1,415	1,096
Tru-Test	Pullout (SB & WB Models)	39,105	39,174	36,784	34,598	35,012
Waikato	MK V (includes farmer-owned)	8,846	8,817	8,716	8,904	9,203
Waikato	SpeedSampler	168	132	109	101	96
Total		78,539	78,015	72,084	69,795	69,486

Yearly Service Kits Are Required



QC Issues on Meters and Parts

Reporting and Discussions with Datamars

- QCS shared pictures and documented concerns with Datamars
- Some of these parts still remain in meter centers
- Encourage inspection and calibration prior to placing meter in service

Assembly

- Wrong nozzle and flask combinations on Auto Sampler meters (clear nozzle with 110# flask and the opposite)
- Wrong cap on Auto Sampler meters
- Missing nozzles on EZ Test and Auto Sampler meters
- Missing lift wire on EZ Test meters
- Missing stainless steel ball in EZ Test valve
- EZ Test valve on Auto Sampler meter
- Missing jaw pads on super clamps
- Missing spring on Auto Sampler button
- EZ Test bodies without holes drilled in them

QC Issues on Meters and Parts

Burrs on Bottom of Flasks



QC Issues on Meters and Parts

Wings on Wash Baffle Broken



Dirty Flasks on Meters

- CIP is not effective for meter cleaning in many modern parlors
 - Rule of thumb - need to add 1 gallon of water plus detergent/acid for each meter
 - Cannot adjust cleaning cycle – DHI is locked out of system
 - Entire flask does not clean or sanitize
- Lack of sanitization protocols when arriving at dairy
- Field service managers express frustration with ISPs (non-employees) who do a poor job of meter care, cleaning and service



Dirty Valves on Meters

Valves need to be cleaned regularly



- Technically after every use under PMO
- Break down valve meters at least monthly to clean and inspect
- Field technician responsibility – not the meter technician at annual calibration

Using Portable Meters Instead of Fixed In-Place Meters/Samplers



- Affects system vacuum, milking times, milk out
- Increases level of carry-over in DHI samples

Old or 'Recycled' Hoses to Connect Meters



FDA/PMO Non-Compliant Connectors



FDA/PMO Compliant Options

Vanden Bosch Testing (ID)



5/8 to 5/8 is \$5.25
5/8 to 3/4 is \$14.50

Mini-Cassia Dairy Testing (ID)



5/8 to 5/8 is \$9.00
5/8 to 3/4 is \$9.00

American Weigh Scales – PK Series

- Digital scale with low purchase price (\$22-26 each)
- 66 lb..... and 110 lb..... models available
- Easy to carry in computer bag
- Accurate but not legal for trade
- Can be easily calibrated
- Modern image for DHI providing accurate results
- 10-year warranty



Meter Technician Training School - 2019



Meter Technician Training School - 2020

- October 19-21, 2020
- Manheim, PA
- Support from Lancaster DHIA
- Combination of classroom and hands-on training
- Meeting information will be sent to all affiliates by April 3, 2020 and will be posted on QCS website.

Lancaster
DHIA

QCS resources on-line:

- Presentations from MTTS
- Fact sheets/pass fail charts
- Manuals for each meter model
- Certification exams for meter technicians (no charge)

Meter Centers & Technicians

[Auditing Guidelines for Meter Centers and Technicians](#)

Version 14.0 - Effective July 29, 2014

Meter Technician Training Presentations and Resources Updated August 31, 2017

[Auditing Procedures for Meter Centers & Technicians](#)

[Meter Technician Calibration Procedures](#)

[Calibration of Portable Scales](#)

[Care and Maintenance of Portable Meters](#)

[Care and Maintenance of Super Clamps](#)

[Meter Calibration Fact Sheet](#)

[Meter Calibration - Pass/Fail Chart](#)

[Scale Calibration - Pass/Fail Chart](#)

Meter and Scale Technician Certification Exams Updated August 31, 2017

[Meter Technician Procedures - Certification Exam](#)

[Scale Technician Procedures - Certification Exam](#)

[Calibration of Tru-Test Meters - Certification Exam](#)

[Calibration of Waikato Meters - Certification Exam](#)

Repair and Maintenance Manuals for Approved Portable Meters Updated August 31, 2017

[Tru-Test Farmer \(SB\)](#)

[Tru-Test Econo-Valve \(SB\)](#)

[Tru-Test Pull Out \(SB\)](#)

[Tru-Test Pull Out \(WB\)](#)

[Tru-Test Ezi-Test \(SB\)](#)

[Tru-Test Ezi-Test \(WB\) \(EN\) \(ES\)](#)

[Tru-Test Auto Sampler \(SB\)](#)

[Tru-Test Auto Sampler \(WB\) \(EN\) \(ES\)](#)

[Tru-Test Electronic Milk Meter \(EMM\)](#)

[Tru-Test Data Handler \(for use with Tru-Test EMM\)](#)

[Tru-Test Hangers and Brackets](#)

[Waikato MK V](#)

[Waikato Speed Sampler](#)

[Foss Milko-Scope II](#)