Procedure P017 - Calibrated Equipment Window

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MAIN PANEL > MATERIALS MANAGEMENT > APPROVED LISTS > CALIBRATED EQUIPMENT

Use the Calibrated Equipment window to add and modify date and inventory information for laboratory equipment.

Serial Number	Manufacturer Name	Model Number	Calibration Type	Expiration Date	Verification Date	Leak Te
45700039	Pine Instrument Company	TDOT457001	Standardize	00/00/00	00/00/00	00/00/00
23300016	Southbend	TD0T233001	Standardize	12/31/11	08/30/11	00/00/00
61902003	Humboldt Mfg, Co.	TD0T619002	Check	10/01/12	09/25/11	00/00/00
31911036	OHAUS Corporation	TD0T619011	Calibrate and Verify	07/31/12	07/01/11	00/00/00
3300023	Gilson Company, Inc.	TD0T233001	Check	04/30/12	04/27/11	00/00/00
(L						•
Serial Nu	umber: 61911036			St	atus: Active	•
Manufacturer I	Name: OHAUS Corporation			La	b ld: TD0T619011	
Description: Balance/Scale (TS400S)						
Calibration Aut	hority: Outside Contractor					
Calibration Type: Calibrate and Verify Geographic Area: 19-3						
Calibration Me	ethod: Outside Contractor		▼ Docume	ent Reference:		

Figure 1. Procedure P017 - Calibrated Equipment Window

Field Name	Description
Serial Number	The unique identifier for the calibrated equipment. System-required. Protected after saving. In the upper pane, click the Serial Number column heading to sort records in ascending order by this number.
	Usage: Assign a serial number using the following format to each piece of equipment.
	Format: RCCLLSSS, where
	R represents the region number (1-4) where the lab equipment is assigned with the following exception:
	 6 if the equipment is assigned to Headquarters.
	CC represents the county code where the equipment is located with the following exceptions:
	 Nuclear gauges should use the county code for the regional M&T office.
	LL represents the lab unit number for Headquarters labs with the following exceptions:
	• 00 if a regional lab or Headquarters Field Operations.
	SSS represents a 3-digit sequence number.
	Note: Each lab must record the unique serial number on the equipment to which it is assigned. Use the following format when recording the number on the equipment: SM-RCCLLSSS , where ' SM- ' represents SiteManager.
Status	Indicates the status of the calibrated equipment.
	Choices include:
	 Active - Has been calibrated, checked, standardized or verified.
	 Inactive - Not currently in use or is in need of repair.
	 Surplus - Has been surplused.
	 Expired - Requires calibration, verification, standardization or a check.
Manufacturer Name	Manufacturer of the equipment. Maximum 30-character length. In the upper pane, sort records in ascending order by this name.
	Usage: Do not use ALL CAPS unless the actual name of the manufacturer uses all caps. If the serial number was incorrectly recorded, this field should contain the word 'INVALID' instead of a manufacturer's name.

Field Name		Description	
Lab ID	Identifies the testing laboratory that uses the equipment.		
	Usage:		
	Format for labs within TDOT: TDOTRCCSSS		
	R represents the region number (1-4) with the following exceptions:		
	 5 if the lab is out-of-state; 		
	 6 if the lab is a Headquarters lab; 		
	• 7 if the lab is out-of-country.		
	CC represents the county where the lab is located with the following exceptions:		
	 Assign nuclear gauges to county code 99. 		
	SSS represents a 3-digit sequence number.		
	Note: Assign nuclear gauges to the 'TDOT699001 - TDOT Field Lab.'		
	Valid choices include:		
	Main Office Labs		
	TDOT619001	TDOT Aggregate Lab	
	TDOT619002	TDOT Asphalt - Emulsion Lab	
	TDOT619003	TDOT Asphalt - Liquid Lab	
	TDOT619004	TDOT Asphalt - Mix Design Lab	
	TDOT619005	TDOT Cement Lab	
	TDOT619006	TDOT Chemical Lab	
	TDOT619007	TDOT Concrete Cylinder/Core Lab	
	TD01619008	TDOT Physical Lab	
		IDOT Research and New Products Lab	
	TDO1619011	IDOT Solls Lab	
	Regional Labs		
	TDOT190001	TDOT Region 1 - Johnson City	
	TDOT147001	TDOT Region 1 - Main Lab	
	TDOT271001	TDOT Region 2 - Cookeville	
	TDOT233001	TDOT Region 2 - Main Lab	
	TDOT216001	TDOT Region 2 - Tullahoma	
	TDOT455001	TDOT Region 4 - Bethel Springs	
	TDOT457001	TDOT Region 4 - Main Lab	
	TDOT409001	TDOT Region 4 - Mckenzie	
	TDOT479001	TDOT Region 4 - Memphis	
	Field Lab		
	TDOT699001	TDOT Field Lab	
	Contractor Lab		
	TDOT698001	TDOT Contractor Lab	

Field Name	Descr	iption
Description	Description of the equipment. Maximum 60-character length. Usage: Acceptable descriptions follow: Autoclave Analytical Balance Balance/Scale Bending Beam Rheometer Blaine Air Permeability Apparatus Breaking Head (Marshall) CBR Mold CBR Penetrating Piston Collar and Float Compaction Hammer (Marshall) Compression Machine Conical Mold and Tamper Consultant's Equipment Consultant's Equipment Contractor's Equipment Contractor's Equipment Drying Oven Ductility Testing Machine Dynamic Shear Rheometer Elastic Recovery Apparatus Flash Cup Flow Table FWD Gas Flow Meter Gillmore Test Apparatus Grooving Tool Ignition Furnace L.A. Abrasion Machine Liquid Limit Device Manual Rammer Mechanical Compactor (Soil) Mechanical Shaker (Coarse) Mechanical Shaker (Coarse) Mechanical Shaker (Fine)	 Nuclear Gauge Pachometer Penetrometer Pressure Aging Vessel Proctor Mold (4") Proctor Mold (6") Proving Ring Pycnometer Road Profiler Rolling Thin Film Oven Rotational Viscometer Saybolt Viscometer ShRP Gyratory Compactor Skid Rig Stability and Flow Tester Stability and Paparatus Vacuum System Vacuum/Pressure Gauge Vicat Apparatus/Ring XRF Spectrometer Record the brand or series and model number of the equipment in parentheses () after the description. If a state tag is attached to the equipment, record the state tag number exactly as it appears on the equipment and precede it with 'TAG.' If no state tag is present, record the manufacturer's model number or manufacturer's serial number exactly as it appears on the equipment. If neither number is available, record '' instead to indicate that no number is present.
	Bottoms (Gyratory)	

Field Name	Description		
Calibration Authority	Pertains to the official body responsible for calibrating, verifying, or checking the equipment.		
	Usage: Type the appropriate choice from the following list. Choices include:		
	 Internal 		
	Outside Contractor		
Calibration Type	Identifies the kind of calibration. In the upper pane, sort records in ascending order by this information. (U: CALBTYP)		
	Usage: Select the appropriate choice from the following list. Choices include:		
	 Check - Select when you confirm measurements of laboratory equipment against specifications. 		
	 Standardize - Select when you can alter the final settings of laboratory equipment (for example, the temperature for a drying oven or the drop of a compaction hammer). 		
	 Calibrate and Verify - Select when a calibration is performed and when you subsequently confirm laboratory equipment against a standard. 		
Geographic Area	Physical location of the lab equipment.		
	Usage: Identifies the region and/or county where the equipment is located.		
Calibration Method	Method of calibration. (U: CALBMETH)		
	Usage: Select the method by which the equipment is calibrated, checked or standardized.		
Document Reference	Usage: TDOT does not use.		
Calibration Date	Identifies the date the equipment was last calibrated or the date the equipment was placed in service. Format: MM/DD/YY		
	Usage: Populate this date for every record. This date should not be a date in the future.		
	 For re-calibration, record the original calibration date and subsequent recalibrations in the <i>Remarks</i> field. 		
	 Format: Originally Calibrated: MM/DD/YYYY Re-calibrated: MM/DD/YYYY 		
	 If the record displays Calibrate and Verify in the Calibration Type field, record the date the equipment was calibrated. 		
	 If the record displays Check or Standardize in the Calibration Type field, record the date the equipment was placed in service. If the placed-in-service date is unknown, use 10/01/90. 		

Field Name	Description	
Expiration Date	Final day of the valid equipment calibration, verification, check or standardization. In the upper pane, sort records in ascending order by this date. Format: MM/DD/YY	
	Note: The latest date for an expiration is 12/31/49 .	
	Usage: Required by policy for every record. Date should be the end of the month for the duration as set for piece of equipment.	
Leak Test Date	Usage: A custom field added to window [Customization: MTC030]. Populate the actual date the leak test was performed for nuclear gauges only. This date should not be a future date. If no leak test is needed, type a 0 . Format: MM/DD/YY	
Verification Date	Usage: A custom field added to window [Customization: MTC030]. Record the actual date the check, verification or standardization was performed. This date should not be a future date. If no verification is needed, type a 0 . Format: MM/DD/YY	
Model Number	In the upper pane, sort records in ascending order by this number. Usage: TDOT re-purposed the Model Number field to identify the Lab ID. Doing so facilitates a search by Lab ID in the top portion of the window. Copy and paste the Lab ID into the Model Number field.	
Remarks (General Remarks)	Usage: Record the original calibration date and re-calibration history when re-calibration is needed. Format: Originally Calibrated: MM/DD/YYYY Re-calibrated: MM/DD/YYYY	

Table 1. Procedure P017 - Calibrated Equipment Window - Fields

Procedure

The Calibrated Equipment window is maintained by the REG – M&T Supervisor and Lab Supervisor security groups.

Equipment should be entered in the Calibrated Equipment window to track dates relating to calibration, expiration, verification, and leak tests of TDOT equipment.

Do not use SiteManager to track the following equipment:

- Cube Mold
- Brass Rings and Assembly

Note: SiteManager does not store calibration results.

Related Reports

Run as needed. All information updates dynamically from the SiteManager database.

Lab Equipment [Report: RR011]

Step-by-Step Instruction

To assign a new serial number:

- 1. In the upper pane, click the Serial Number column heading.
- 2. In the list, now sorted in ascending order, locate the last record for the **RCCLL** (see *Serial Number* in table of field definitions).
- 3. Increment the SSS by 1.

To sort list by equipment located in a region:

1. In the upper pane, click the **Serial Number** column heading.

To sort list by equipment assigned to a lab:

1. In the upper pane, click the **Model Number** column heading.

To record the original calibration date or the re-calibration history when re-calibration is needed:

- 1. While on the desired record, on the toolbar, click the **Remarks** button.
- 2. In the **Remarks** (General Remarks) field, type the appropriate label for the date and the original calibration date or the re-calibration date.
- 3. To close the Remarks window, on the toolbar, click the **Remarks** button again.
- 4. Save.

To mark a record as invalid if a user creates and saves an incorrect serial number:

- 1. In the **Status** dropdown list, select **Inactive**.
- 2. In the Manufacturer Name field, type INVALID in all caps.
- 3. In the **Lab ID** field, delete all text to prevent the equipment from showing on material test templates.
- 4. For the **Description**, **Calibration Authority**, and **Model Number** fields, delete all text.
- 5. For the **Calibration Date**, **Verification Date**, and **Leak Test Date** fields, type **000000**.
- 6. On the toolbar, click the **Save** button.

To note use of consultant's equipment on a material test template:

1. On the material test template, in the **Equipment** dropdown list, select **88888888 – Consultant's Equipment**.

To note use of contractor's equipment on a material test template:

1. On the material test template, in the **Equipment** dropdown list, select **99999999 – Contractor's Equipment**.