Audit Master Pro Training

Air Reports

This tutorial will act as a guide to create and input all data required for the selected air studies.

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Audit Master Pro Air Report Training

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Audit Master Pro Training

Starting a Project

This tutorial will act as a guide for project creation after which air studies can be created.

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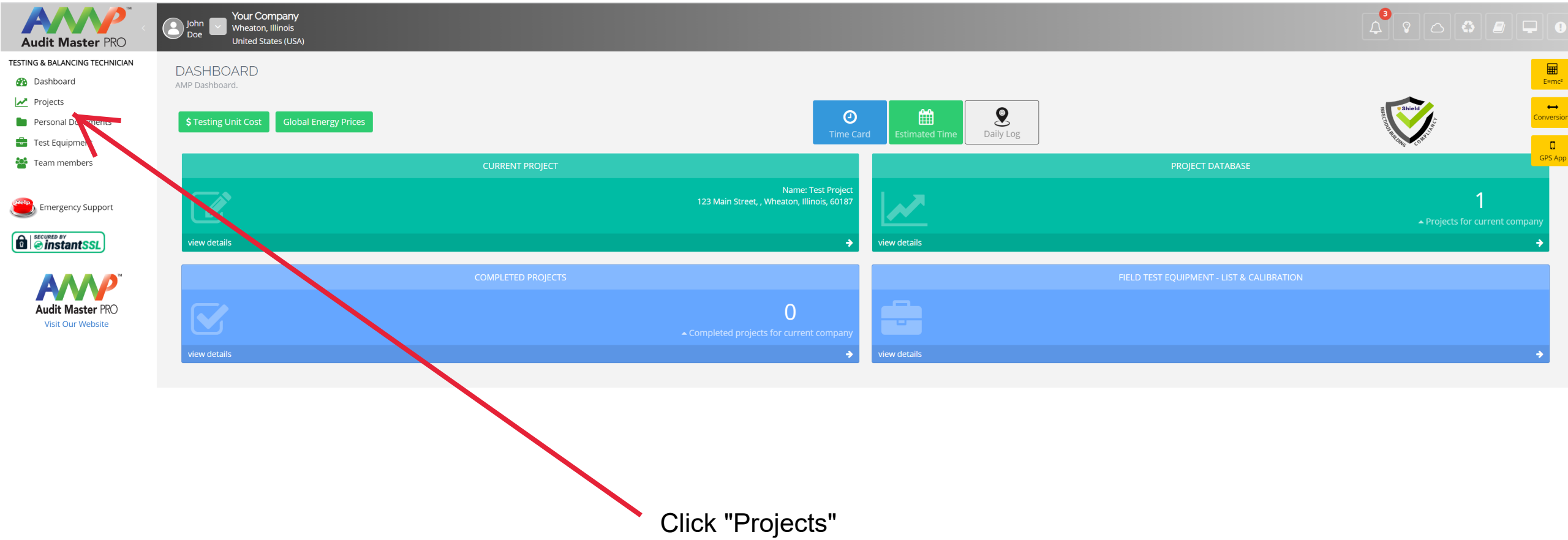
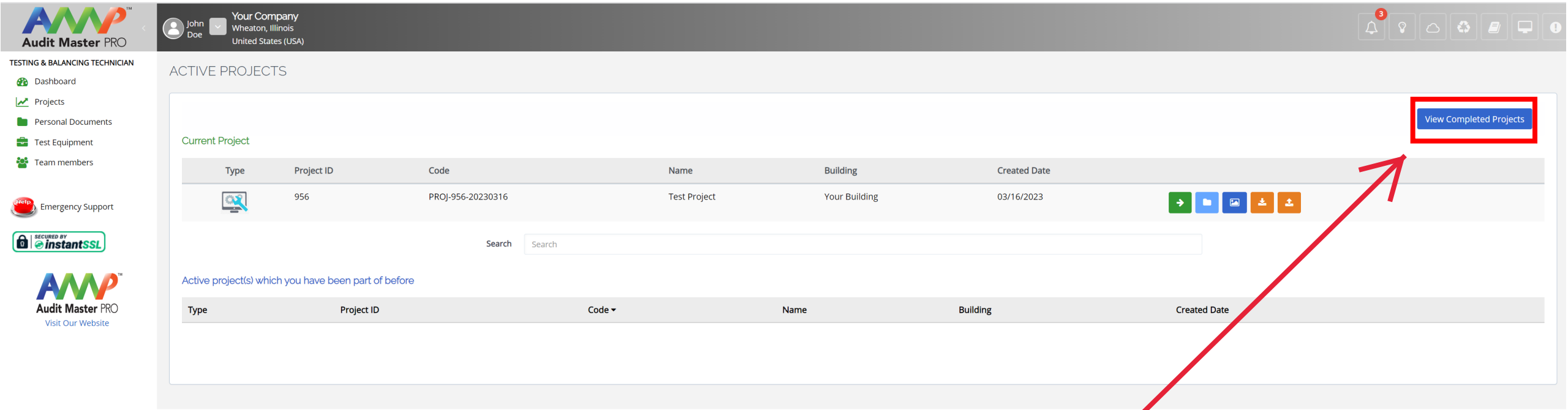


Click "Projects"



Completed Projects are shown here

Audit Master PRO

ACTIVE PROJECTS

View Completed Projects

Current Project

Type	Project ID	Code	Name	Building	Created Date
	956	PROJ-956-20230316	Test Project	Your Building	03/16/2023

Search Search

Active project(s) which you have been part of before

Type	Project ID	Code	Name	Building	Created Date

1st Icon: Go to Project

Audit Master PRO

ACTIVE PROJECTS

View Completed Projects

Current Project

Type	Project ID	Code	Name	Building	Created Date
	956	PROJ-956-20230316	Test Project	Your Building	03/16/2023

Search Search

Active project(s) which you have been part of before

Type	Project ID	Code	Name	Building	Created Date

2nd Icon: Project's Document Library

ACTIVE PROJECTS

View Completed Projects

Current Project

Type	Project ID	Code	Name	Building	Created Date
	956	PROJ-956-20230316	Test Project	Your Building	03/16/2023

Search Search

Active project(s) which you have been part of before

Type	Project ID	Code	Name	Building	Created Date

3rd Icon: Project's Picture Library

Audit Master PRO

ACTIVE PROJECTS

View Completed Projects

Current Project

Type	Project ID	Code	Name	Building	Created Date
	956	PROJ-956-20230316	Test Project	Your Building	03/16/2023

Offline mode. Download project. Coming soon

Search Search

Active project(s) which you have been part of before

Type	Project ID	Code	Name	Building	Created Date

4th Icon: Offline mode. Download Project. Coming Soon.

Audit Master PRO

ACTIVE PROJECTS

View Completed Projects

Current Project

Type	Project ID	Code	Name	Building	Created Date
	956	PROJ-956-20230316	Test Project	Your Building	03/16/2023

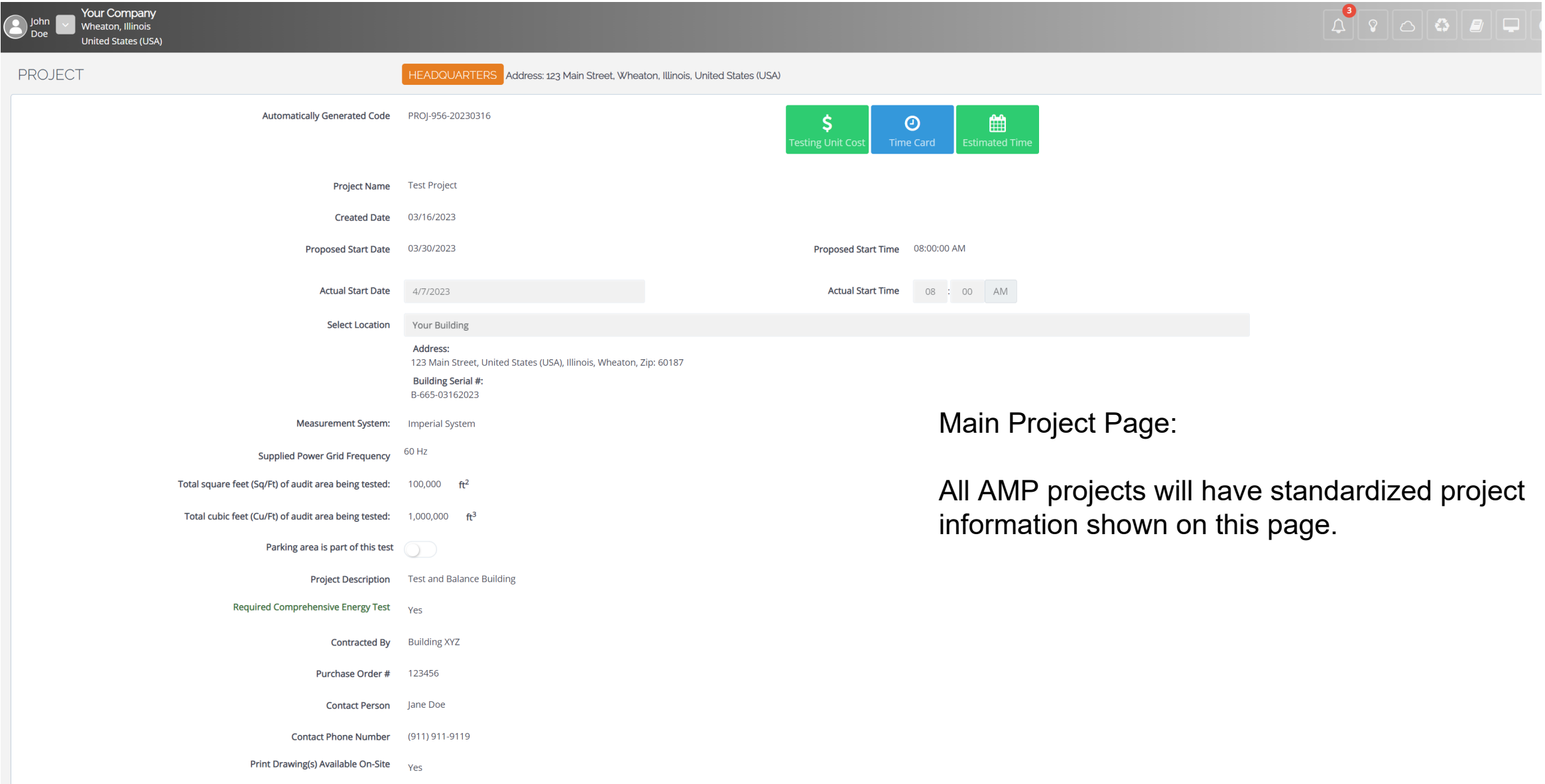
Offline mode. Upload project. Coming soon

Search Search

Active project(s) which you have been part of before

Type	Project ID	Code	Name	Building	Created Date

5th Icon: Offline mode. Upload Project. Coming Soon.



Main Project Page:

All AMP projects will have standardized project information shown on this page.

Audit Master PRO

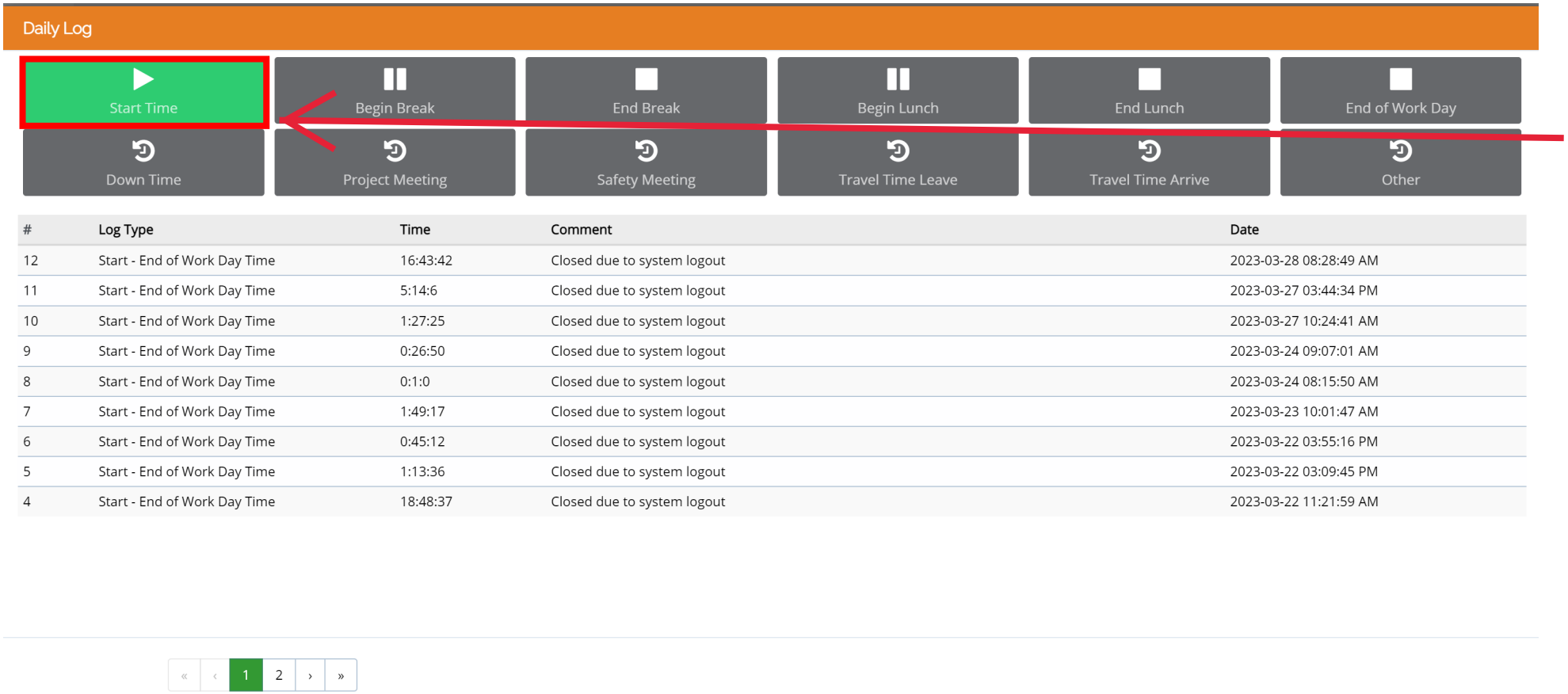
Main project page continued

Contact Phone Number	(911) 911-9119
Print Drawing(s) Available On-Site	Yes
Print Drawing(s) Bid for this Project	
Print Addendum Date Used for Proposal	3/19/2023
Print Project Number	12345
Specifications Provided	Yes
Addendums Bid for this Project	None
Equipment Description and Quantity	10 AHU, 100 VAVs
Lift Work Required	No
Lift On-Site	No
Lift Provided By Others	No
Additional Lift Instructions	
Roof Access / Hatch Available	Yes
Ladders Required	Yes
A-Frame	• 6' • 8'
Extension	
Other	
Control Contractor Name	Control XYZ
Contact Person/Technician	John Doe
Control Contractors Contact Phone Number	(911) 911-9119
Installed Controls Manufacturer	XYZ Controls
Installed Controls Type	DDC
Installed Controls Version	
Auditors/Technician	• Christina Moreci Test • John Doe
Safety Equipment	• Safety glasses • Hard hat • Steel toe boots
Building Pressurization	Positive +
Additional Project Instructions/Directions	

Close

Next Step →

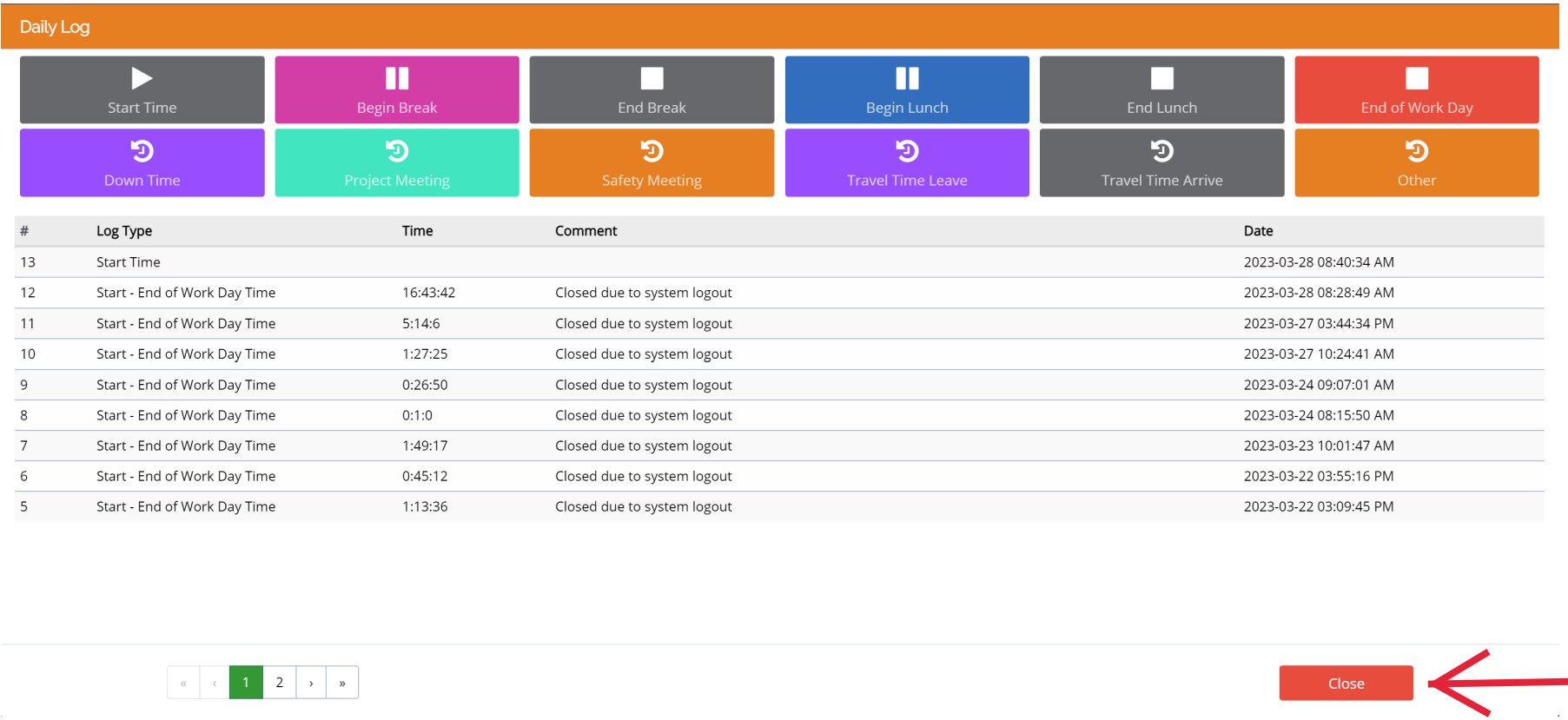
Audit Master PRO



Daily Log:

The technician is required to click "Start Time" to begin working on any project.

Audit Master PRO



The daily log allows the technician to document all time aspects of a work day.

Note: Time clock updates may also be accessed through the "AMP Auditors" app.

AMP Auditors
AMP Technicians/Auditors

Click "Close" to continue

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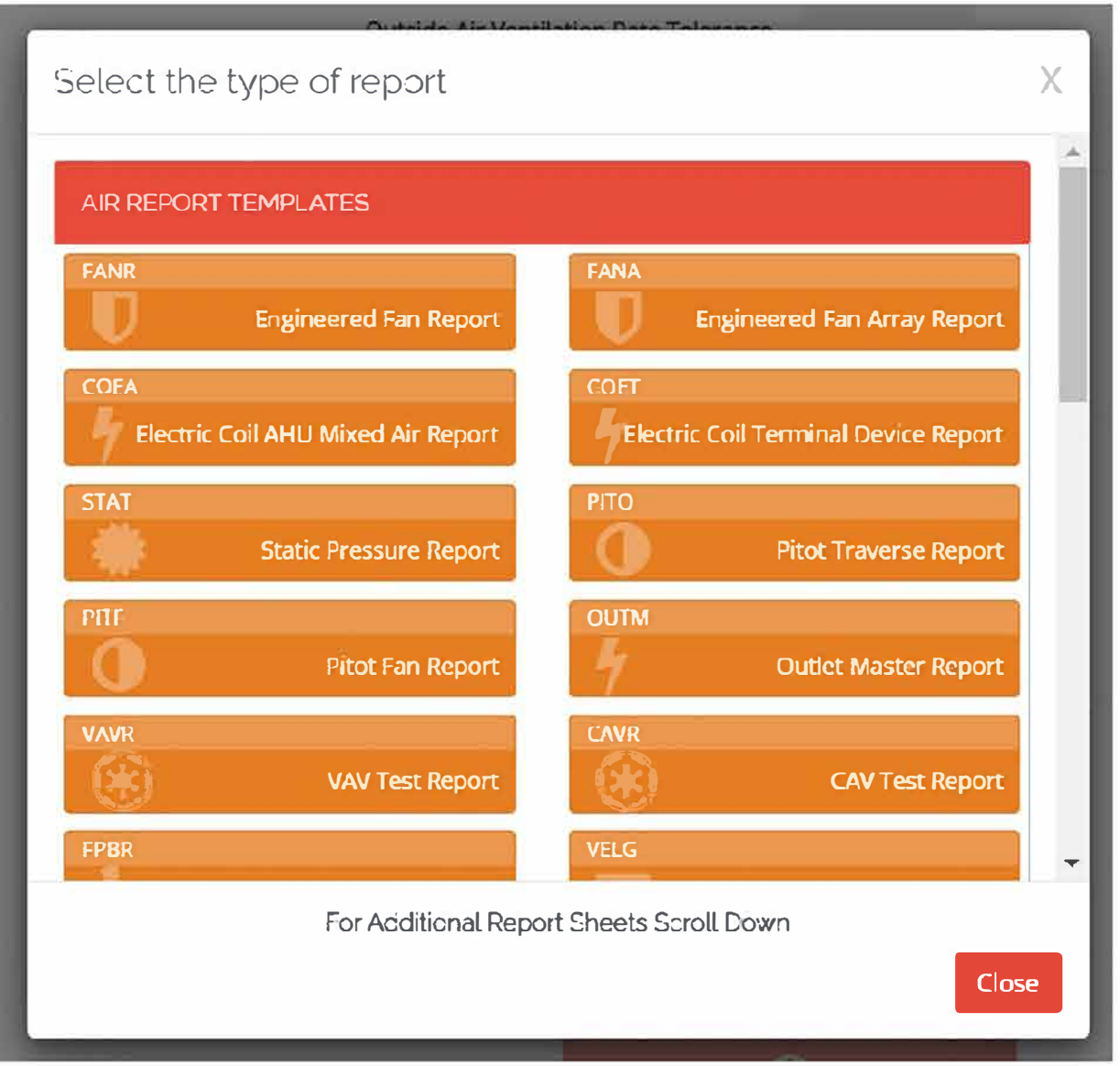
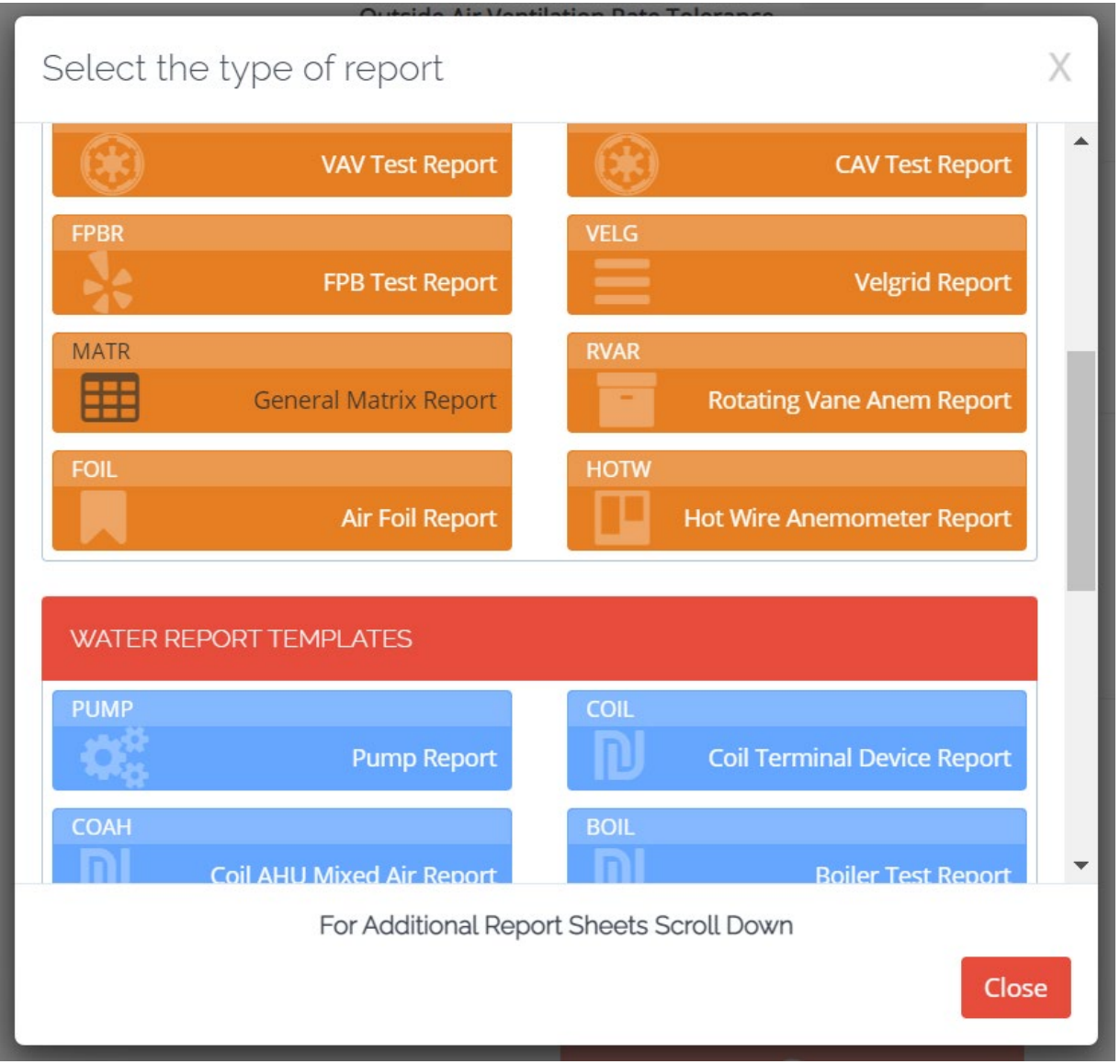
Total System GPM Tolerance

10 +

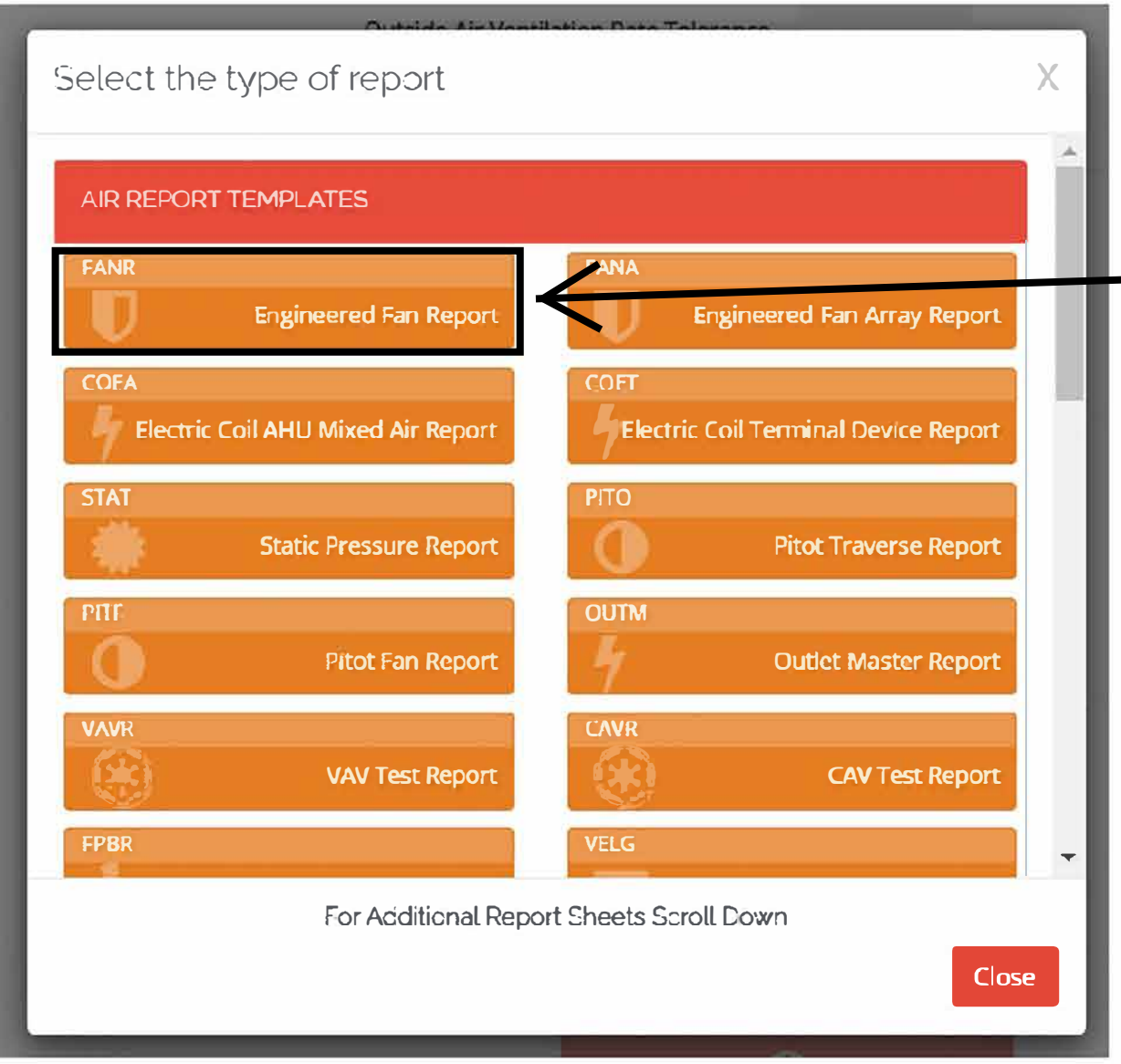
10 -



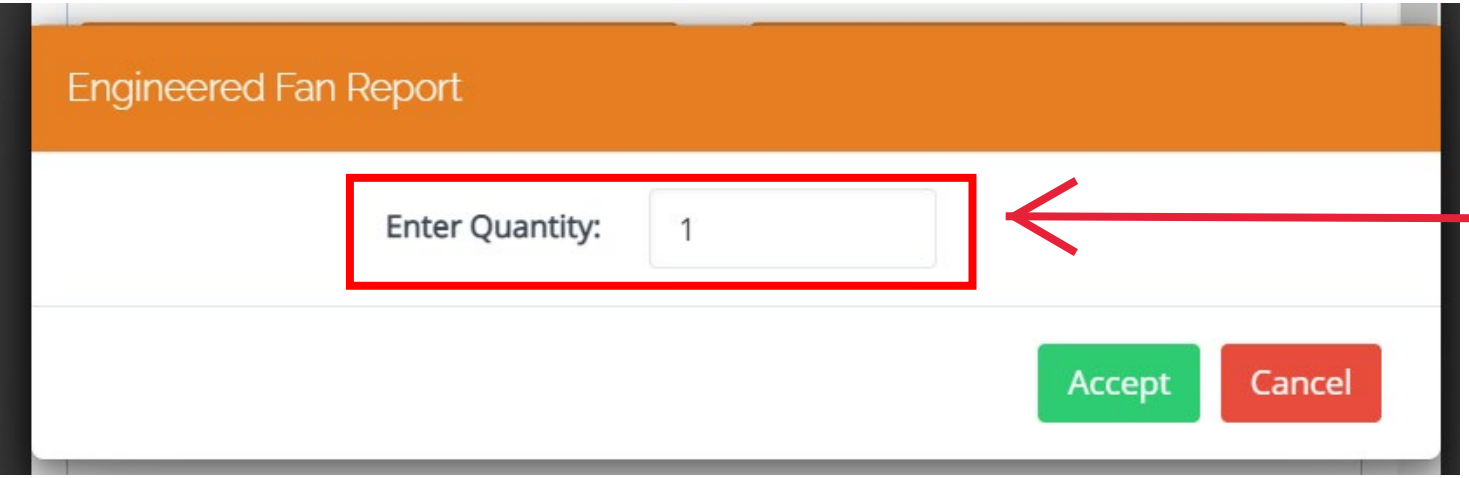
All "Air Report" studies are shown in ORANGE



Continued "Air Report" studies are shown in "ORANGE"

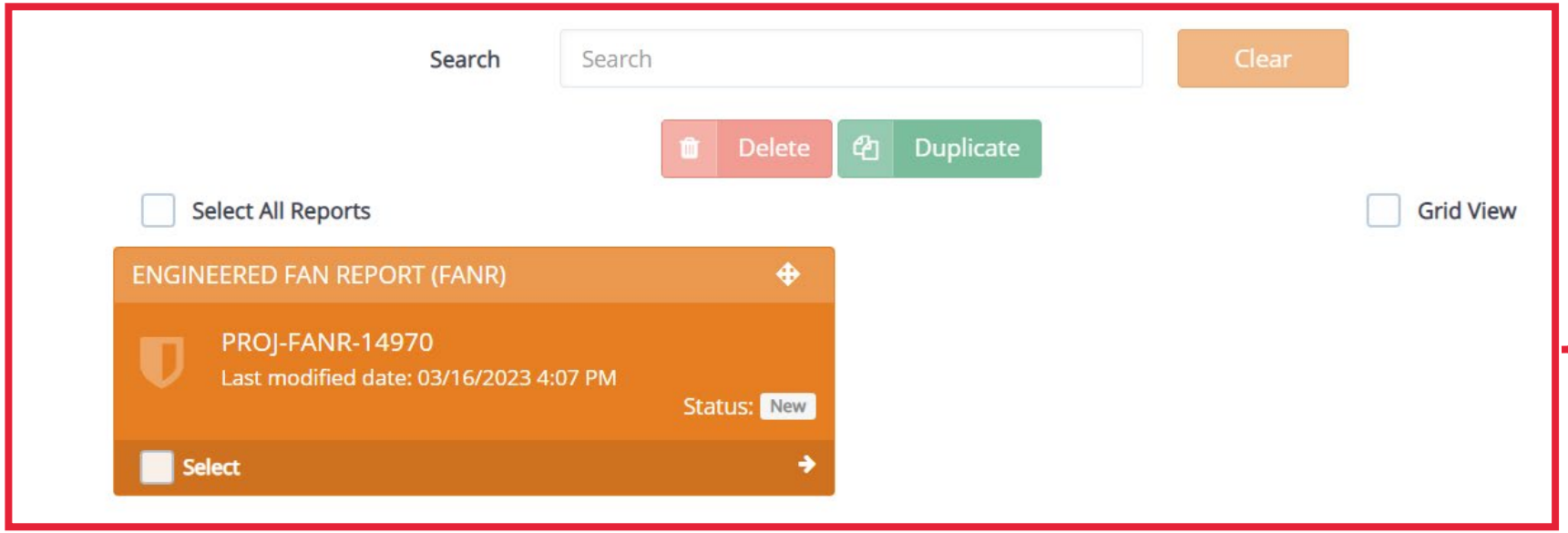


Click "Engineered Fan Report" to create study

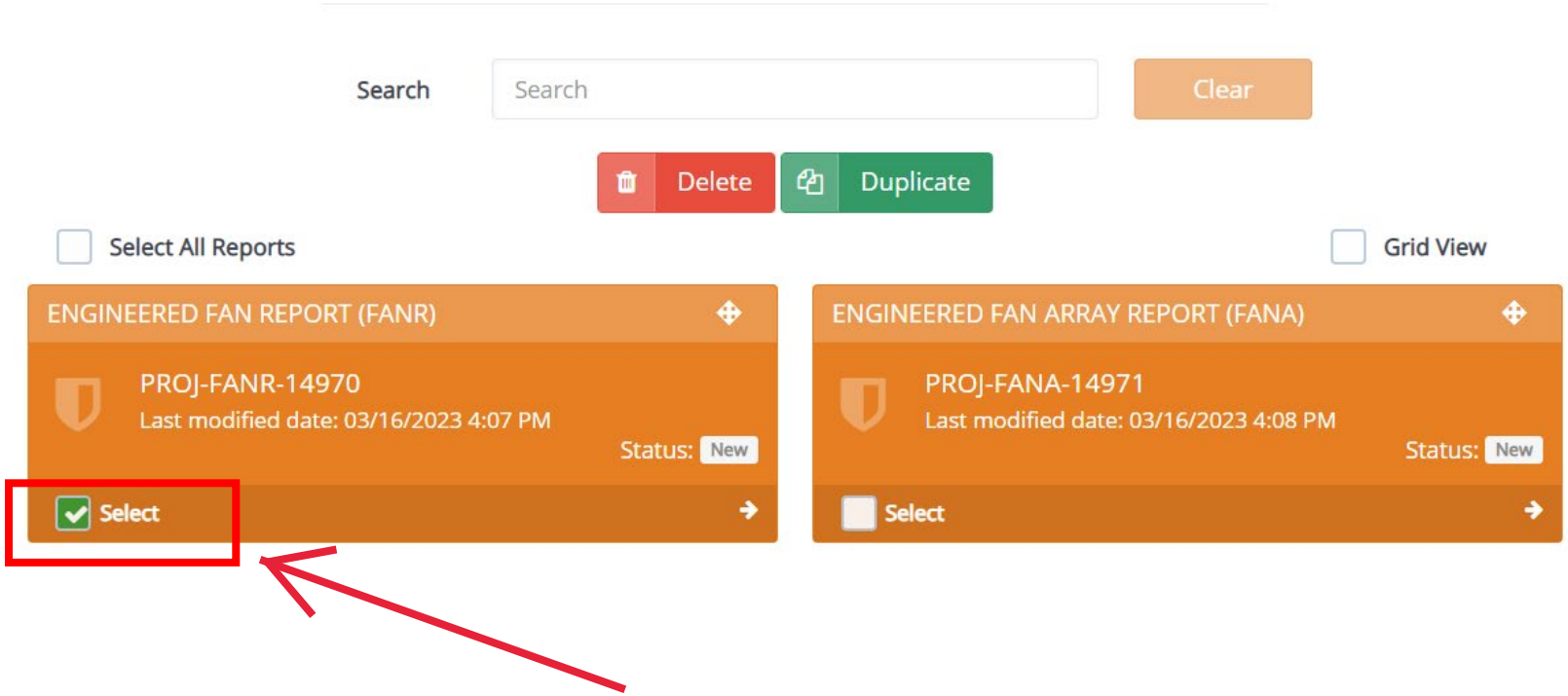


Create Study:

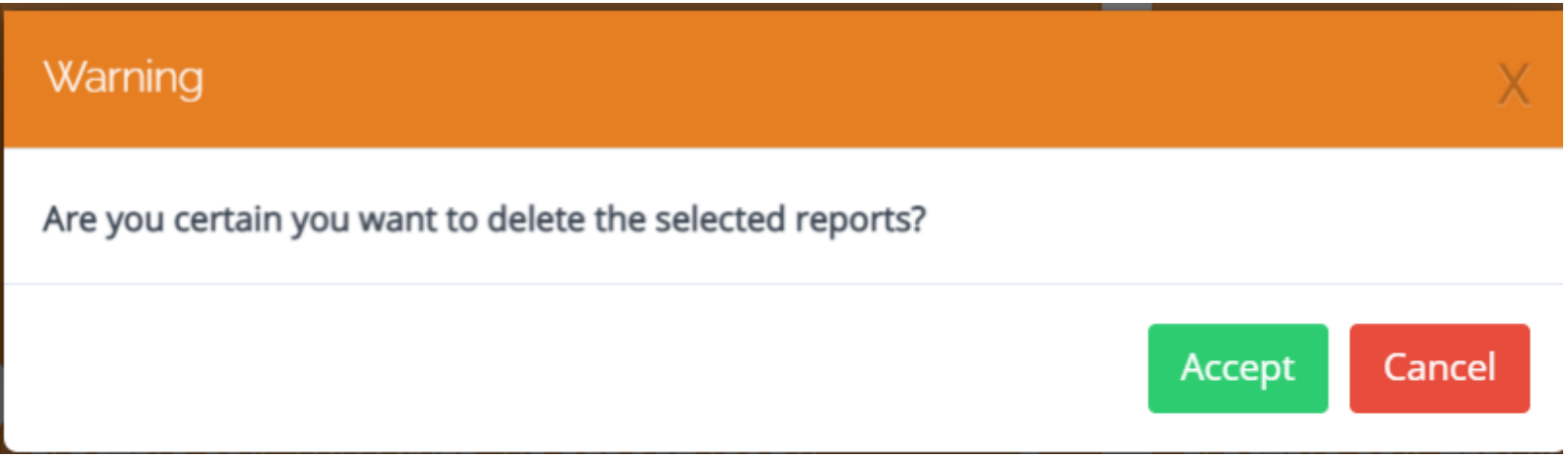
Every time you create a study you will be prompted to enter the quantity of the study you would like created.



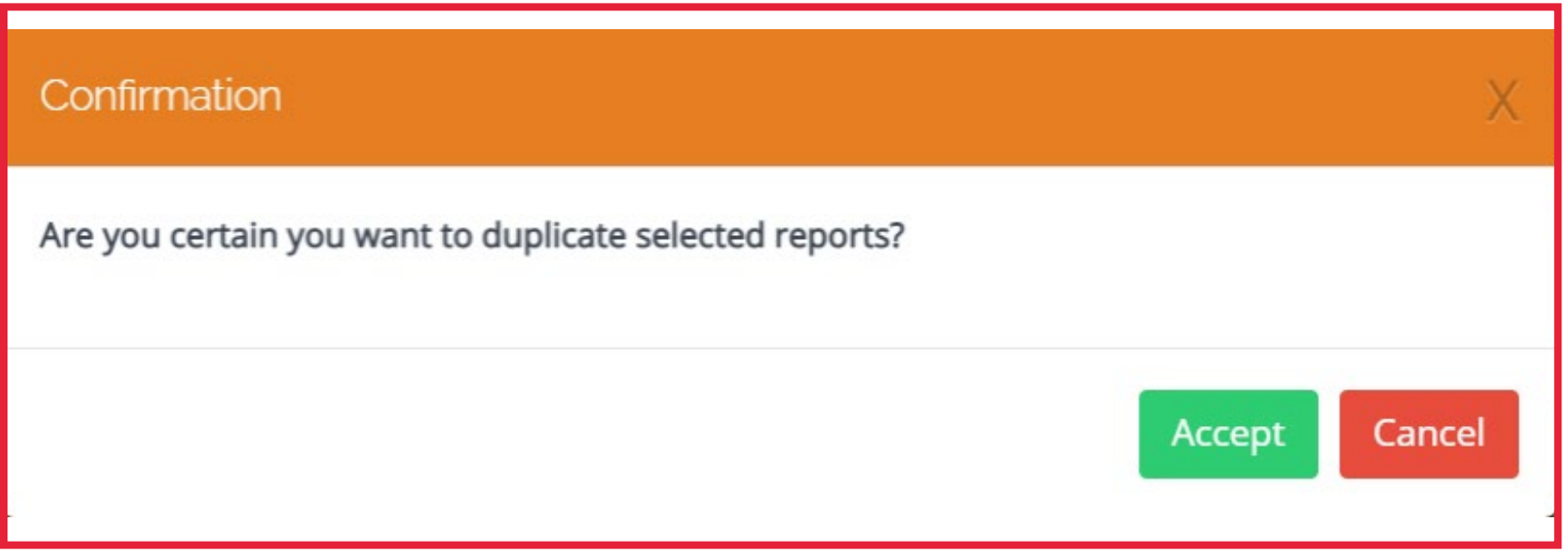
After a study is created it will be shown here.



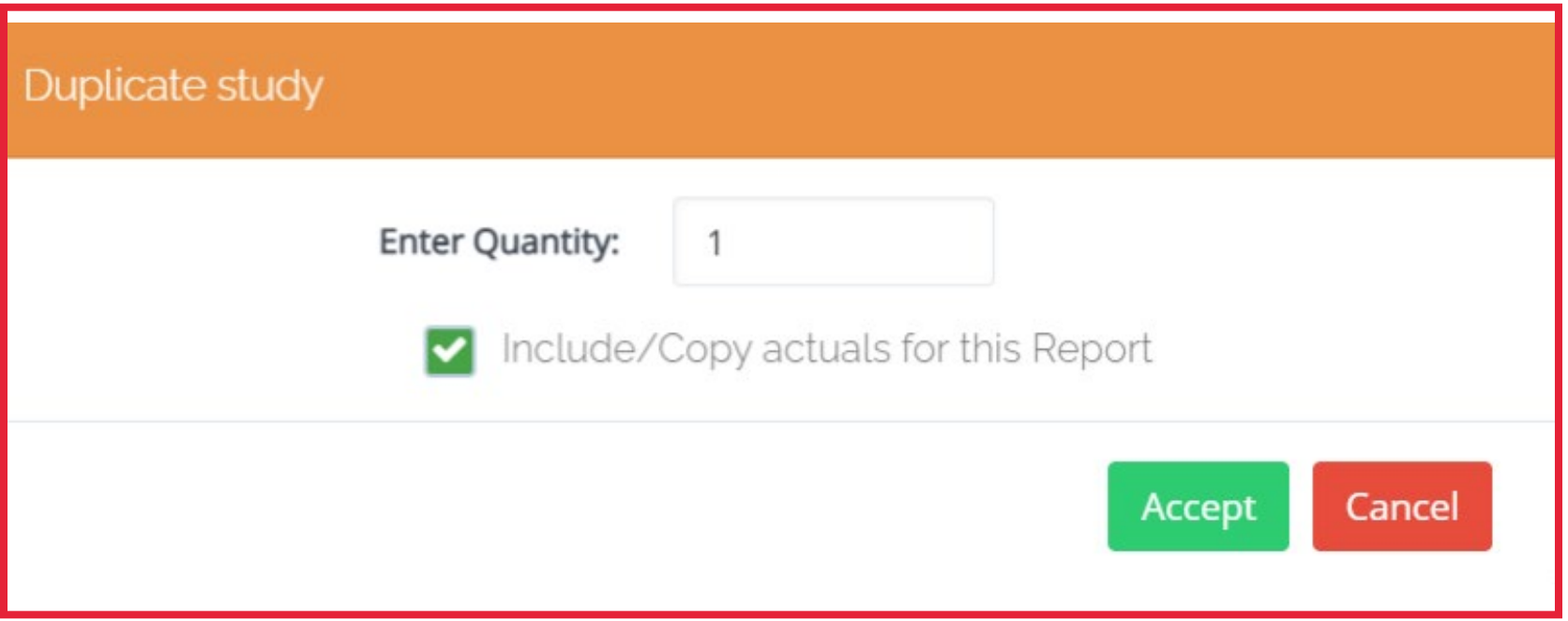
Any study created can be selected on the project page and be deleted or duplicated.



Deleting a report will generate this warning to confirm report deletion.

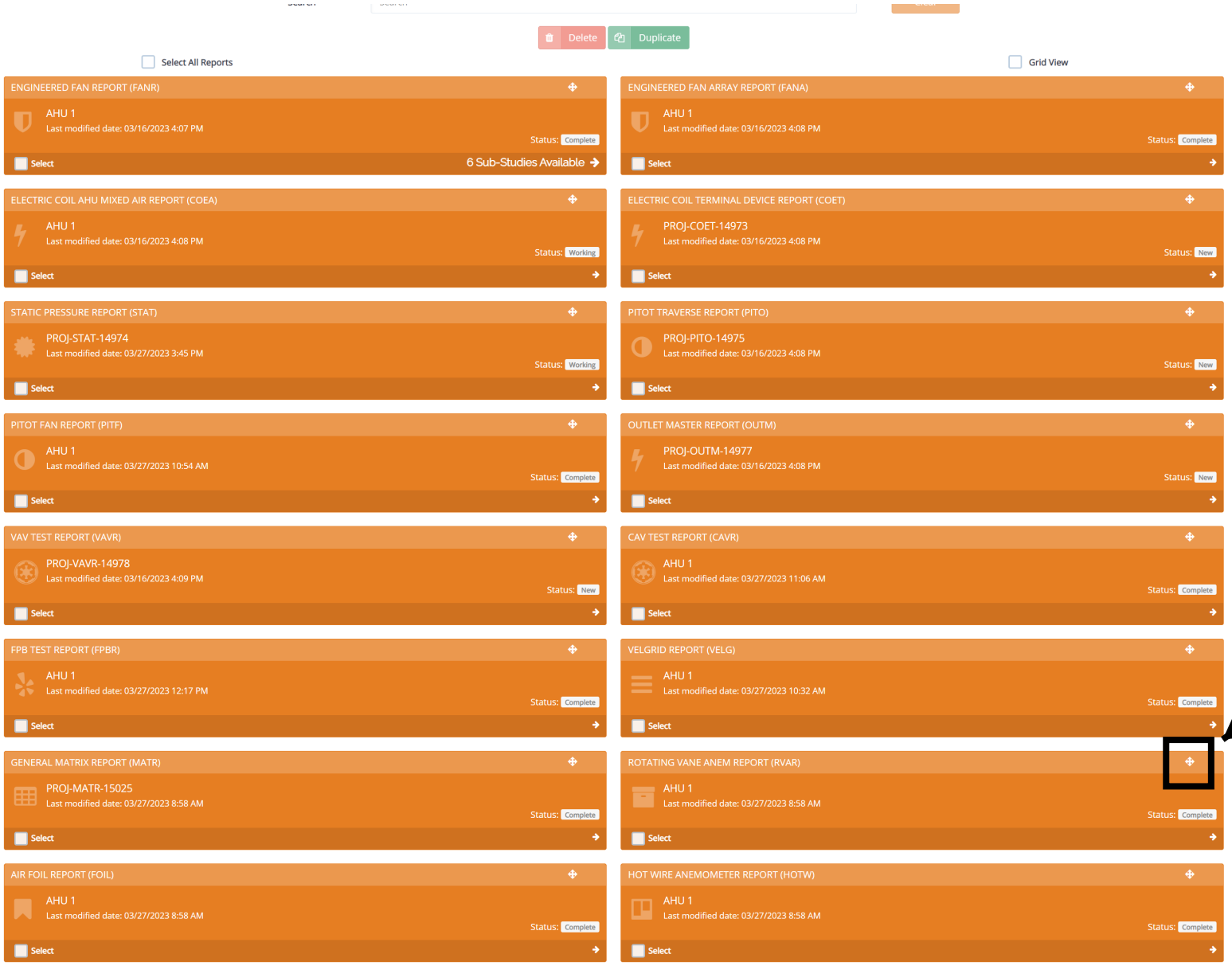


Duplicating a report will generate this warning to confirm report duplication.



Accept duplicate quantity desired.

Note: When duplicating a study, you have an option to duplicate all of the previously entered data.



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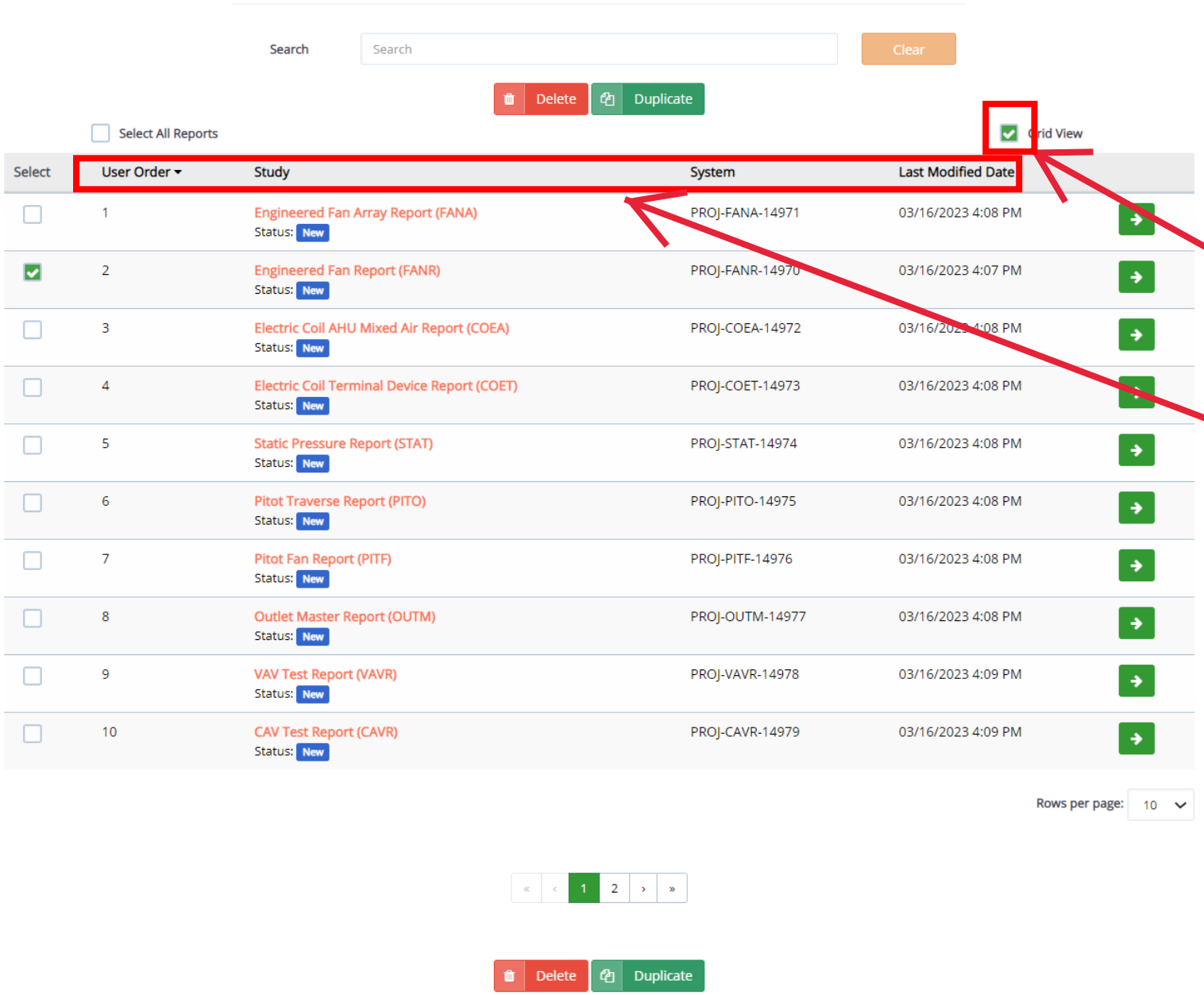
Thumbnail View of Studies:

All generated reports will be shown on the project page.

Note: Projects may be dragged to reorganize via the move/drag icon on the top right of the thumbnail view.



Grid View of Studies:

You may switch to grid view by clicking the box shown.

Note: Projects may be organized via the title bar icons on top of the grid view.

Audit Master Pro Training

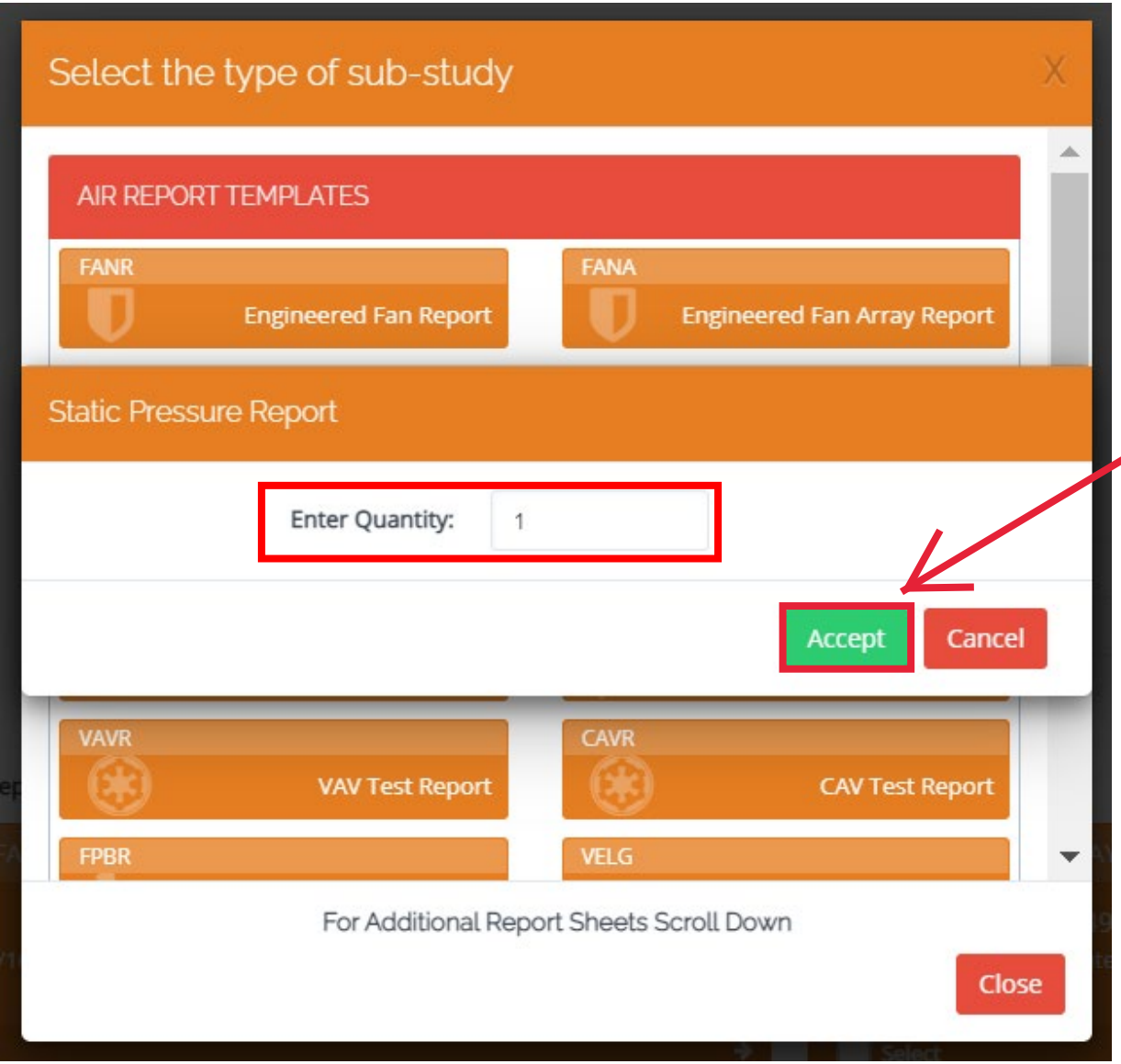
Engineered Fan Report

This tutorial will act as a guide to create and input all data required for the selected air study.

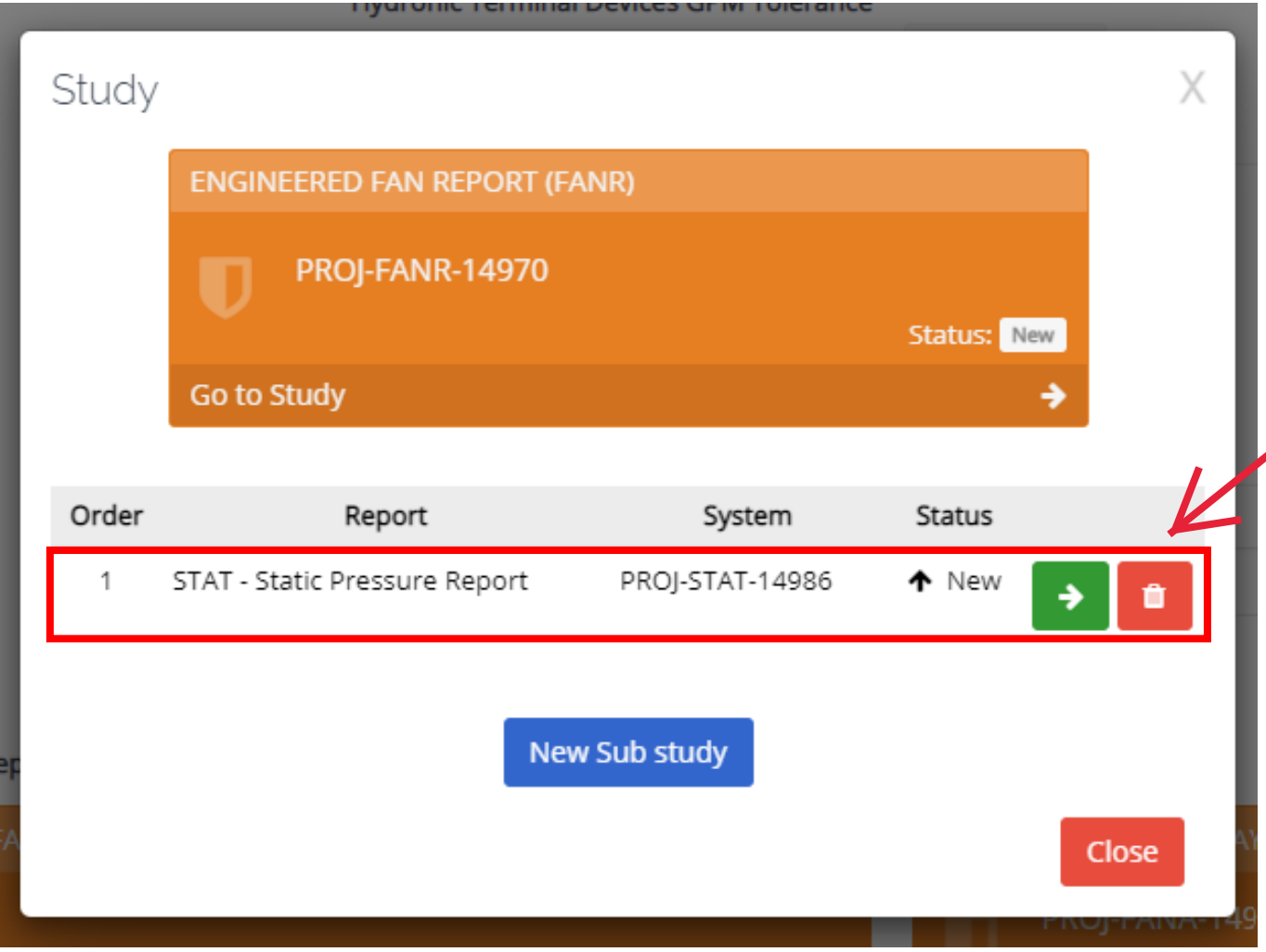
Go to Index

When creating a study you will have the option to create a Sub-Study. A Sub-Study contains the exact same information as a main study but will be shown under the main studies report.

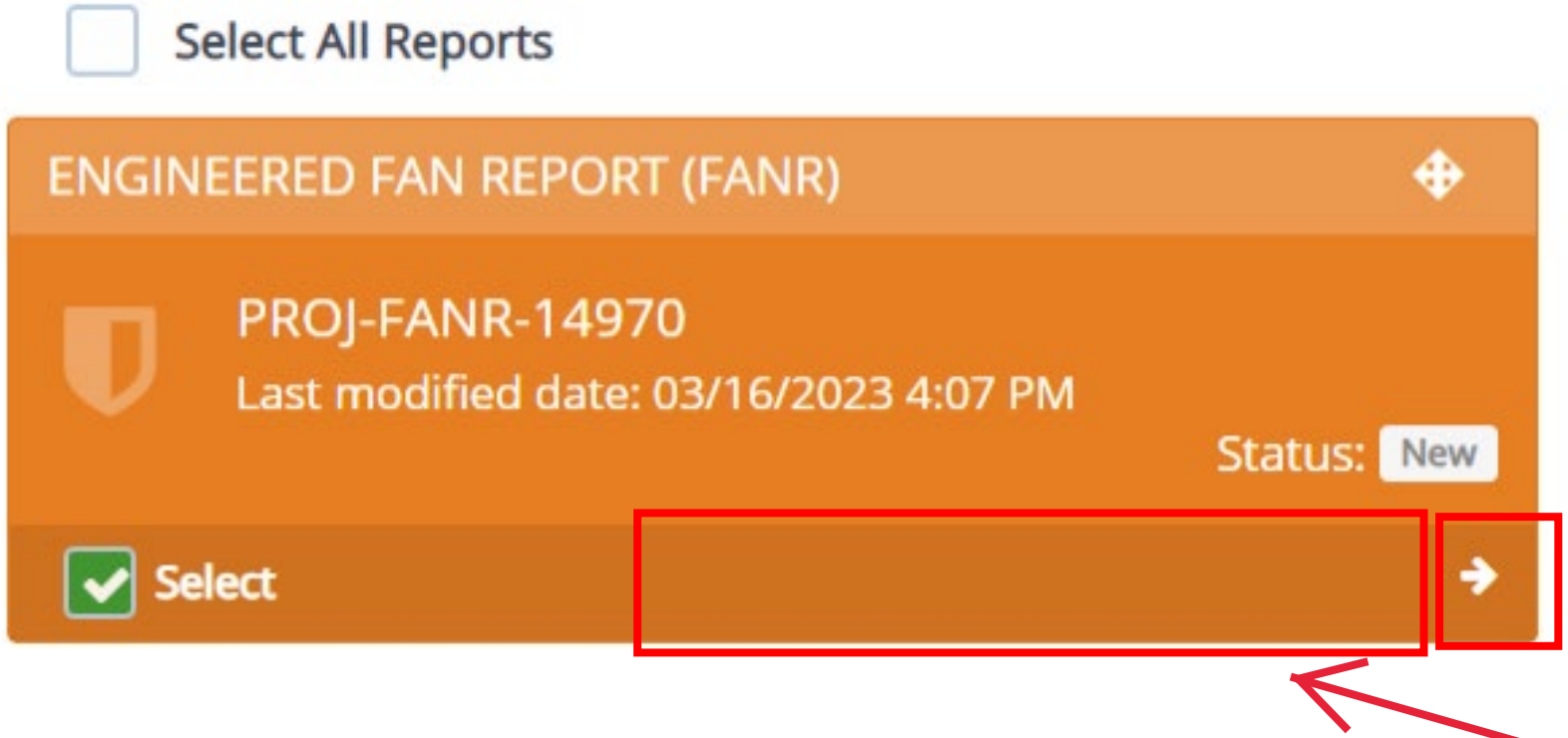
Example: An AHU is created through a "Engineered Fan Report" study, static pressures are also required for the equipment. A Sub-Study will be selected and "Static Pressure Report" will be chosen.



Enter the quantity of Sub-Studies you would like created and click "Accept."



The Main Study will now show a Sub-Study listed under the Main Study.



Click here to begin entering data for the study.

If a Sub-Study exists under a main study, it will be shown here.

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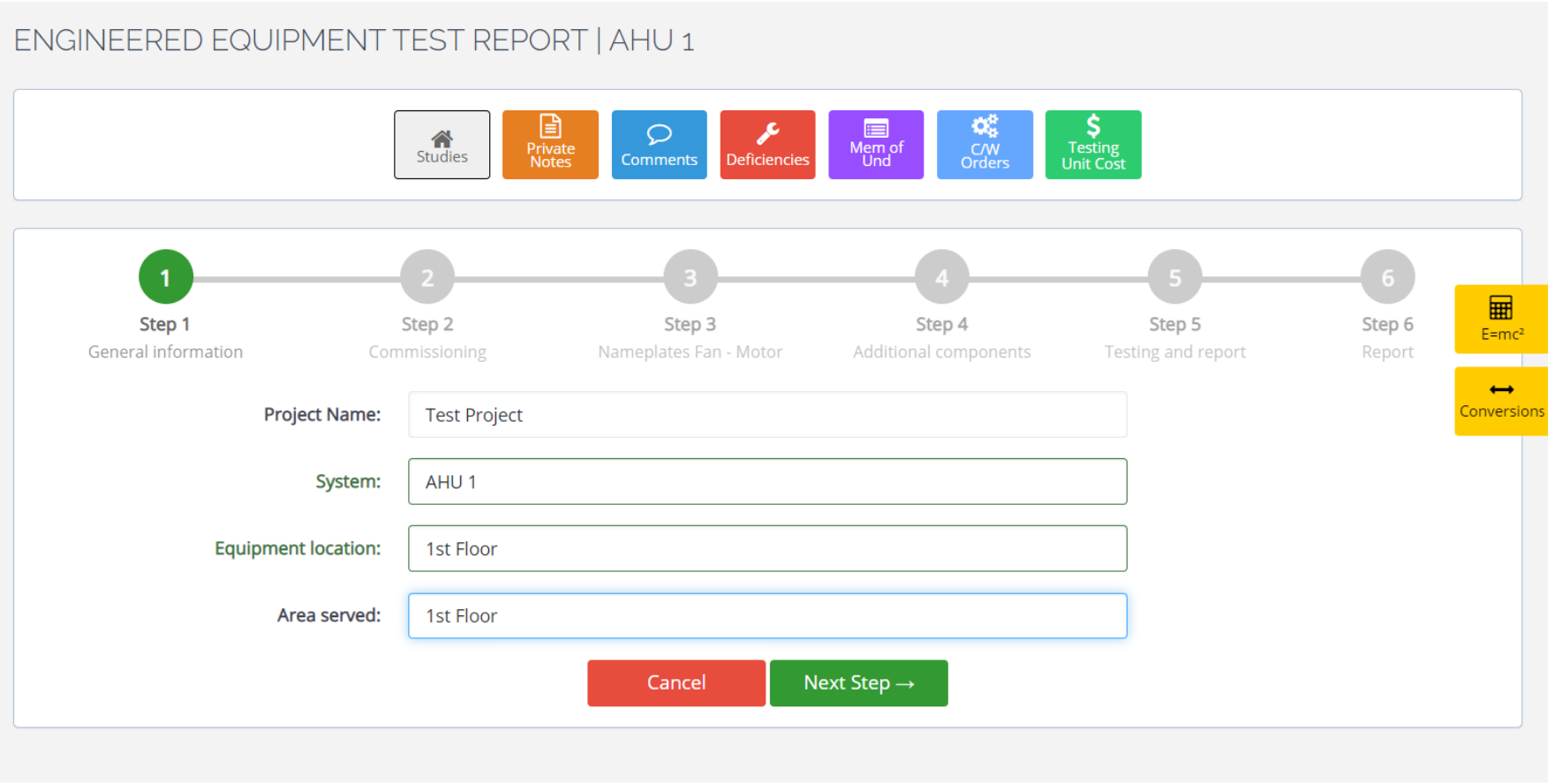
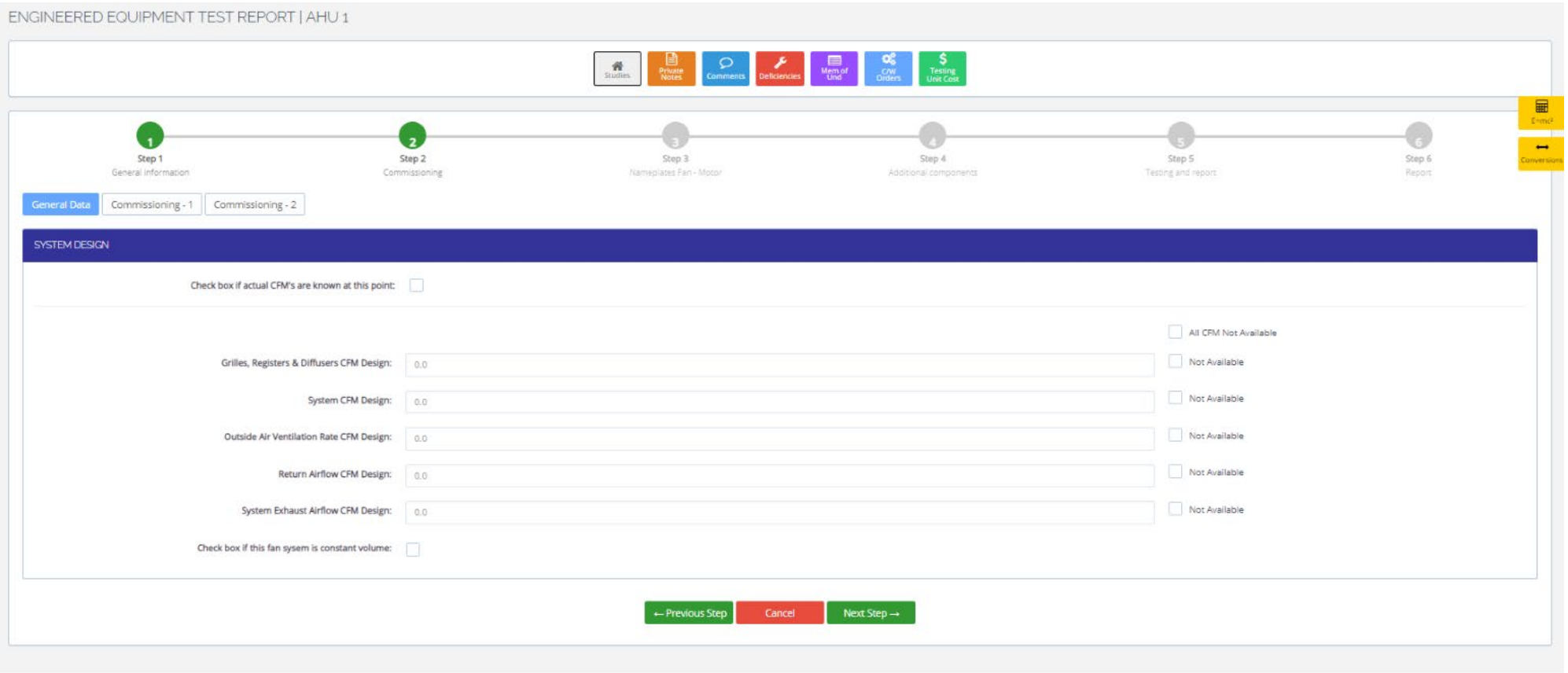


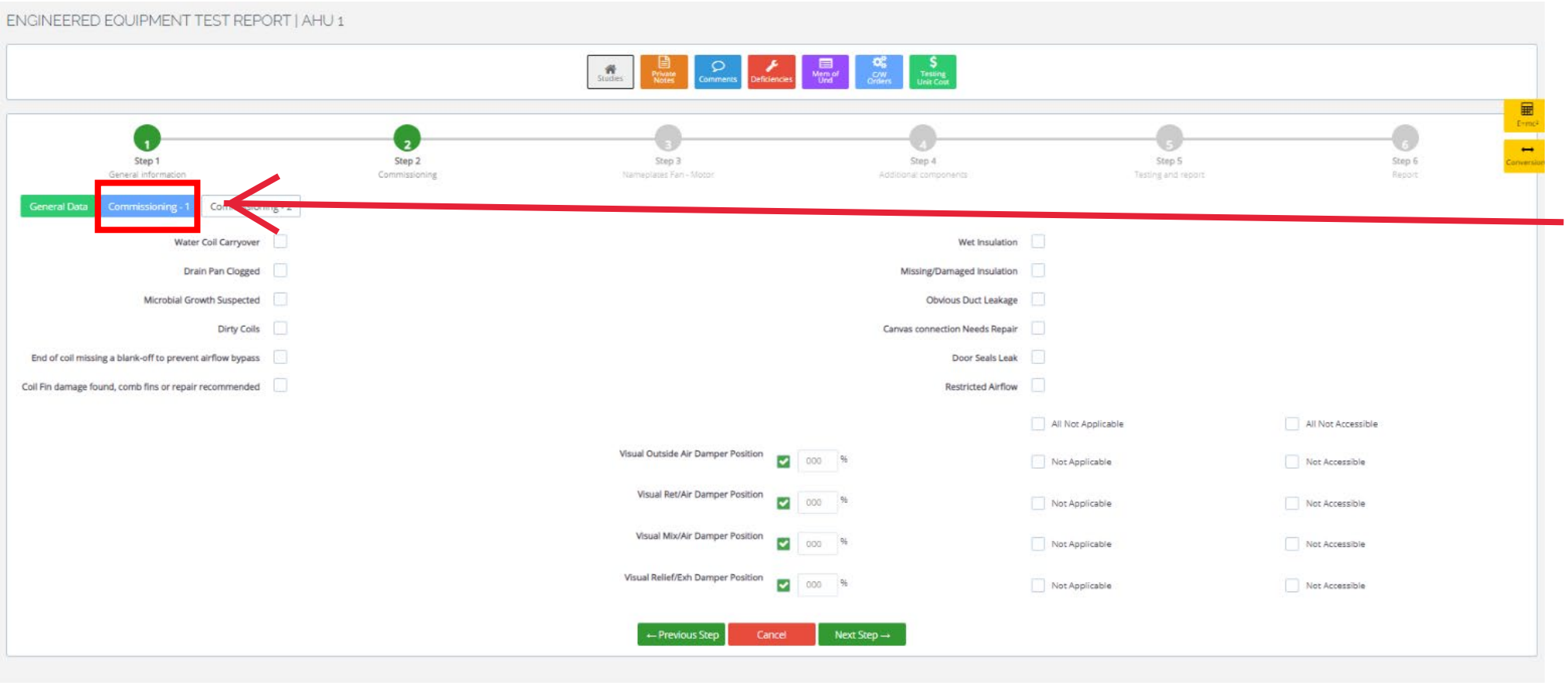
Enter General Information

Audit Master PRO

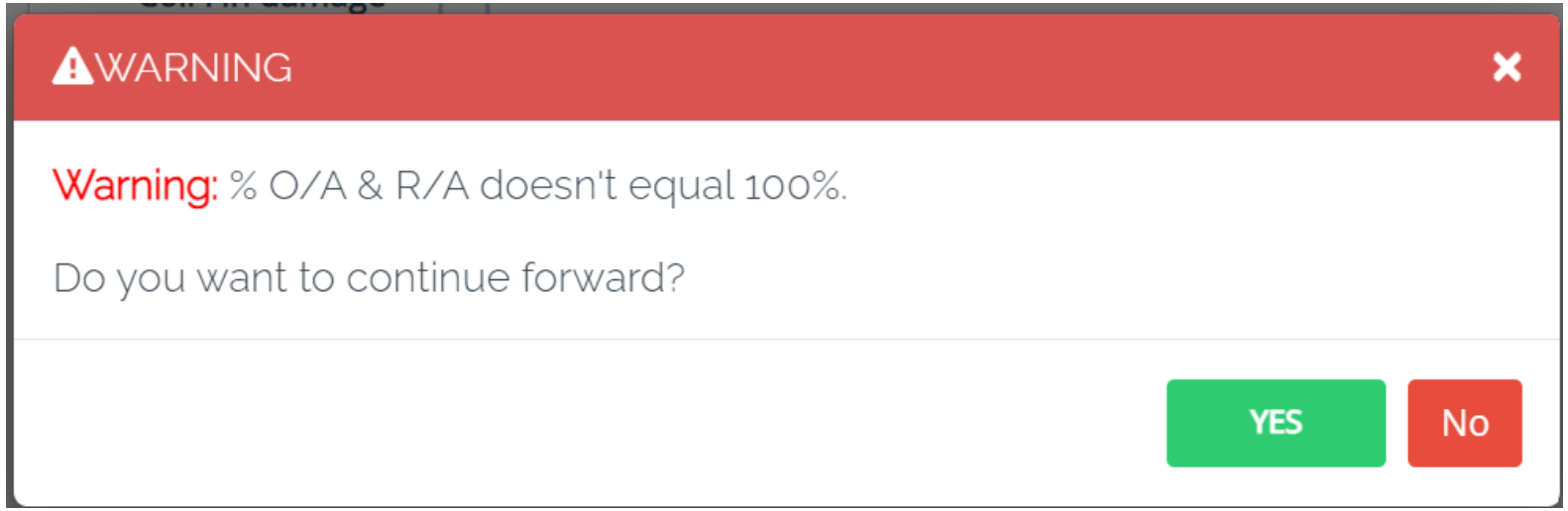


Enter System Design Data

Audit Master PRO



Enter Commissioning-1 Data



Click "Yes" to continue or click "No" and correct the entered data.

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General Data | Commissioning - 1 | Commissioning - 2

Dirty Filters
- ○ No Issues Apparent
- ○ Dirty Filters At Time Of Report Generation
- ○ Dirty Filters But Some/All Removed At Time Of Report Generation
- ○ Dirty Filters But Corrected At Time Of Report Generation

Outside Air Bird Screen/Louver Dirty
- ○ No Issues Apparent
- ○ Dirty Screen / Louver At Time Of Report Generation
- ○ Dirty Screen / Louver But Corrected At Time Of Report Generation

Fan Cabinet internal Cleanliness
- ○ Clean, no issues
- ○ Fairly clean, recommend scheduling a cleaning soon
- ○ Dirty, recommend immediate cleaning

Filters Installation
- ○ No Issues Apparent
- ○ End of installed filter(s) missing a blank-off(s) to prevent airflow filter bypass
- ○ Filters butted seams not taped to prevent airflow filter bypass
- ○ Filter thickness improper as compared to the filter track/slide rail dimension

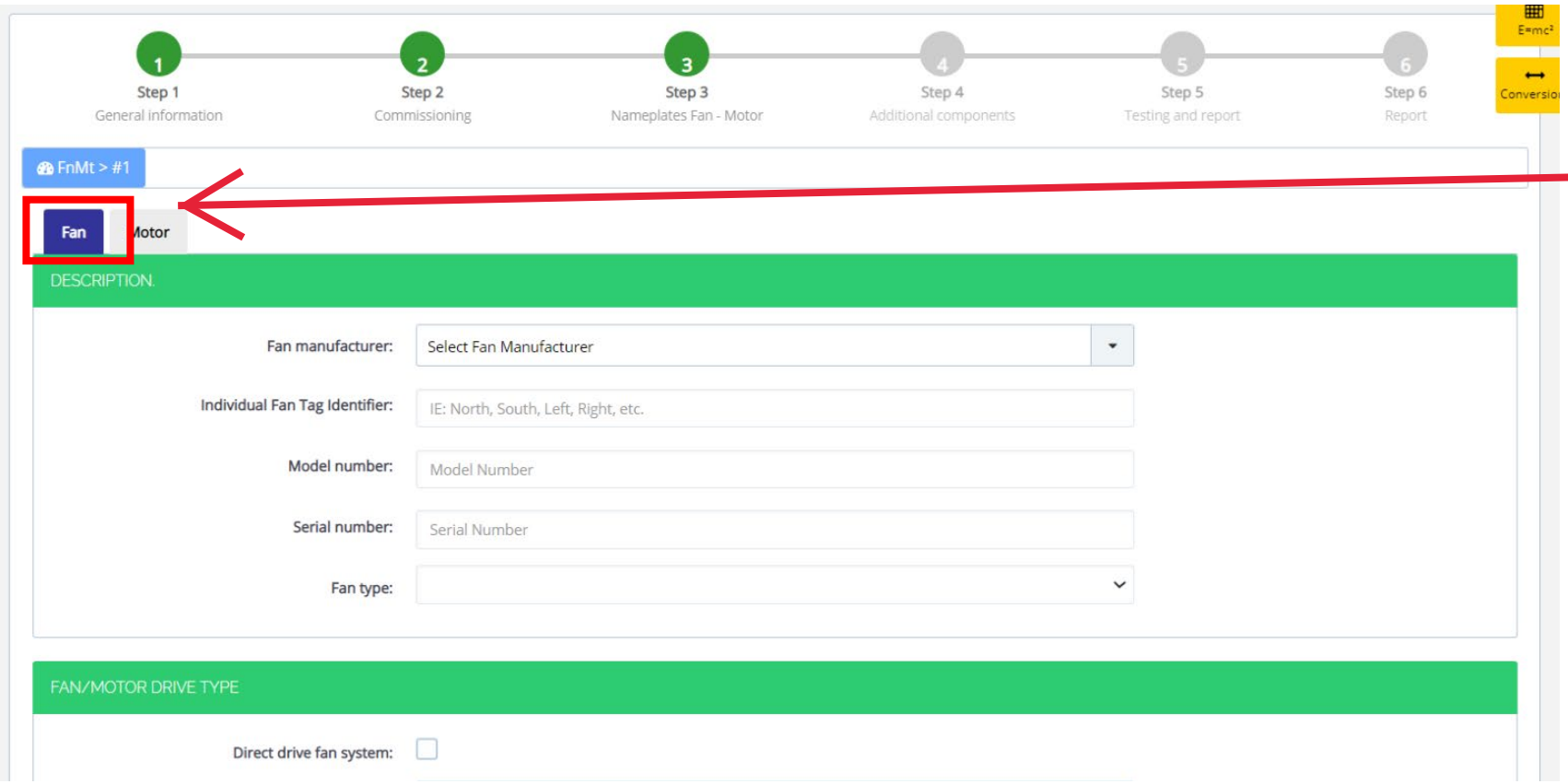
E=mc² | Conversio

MULTIPLE FAN SYSTEMS

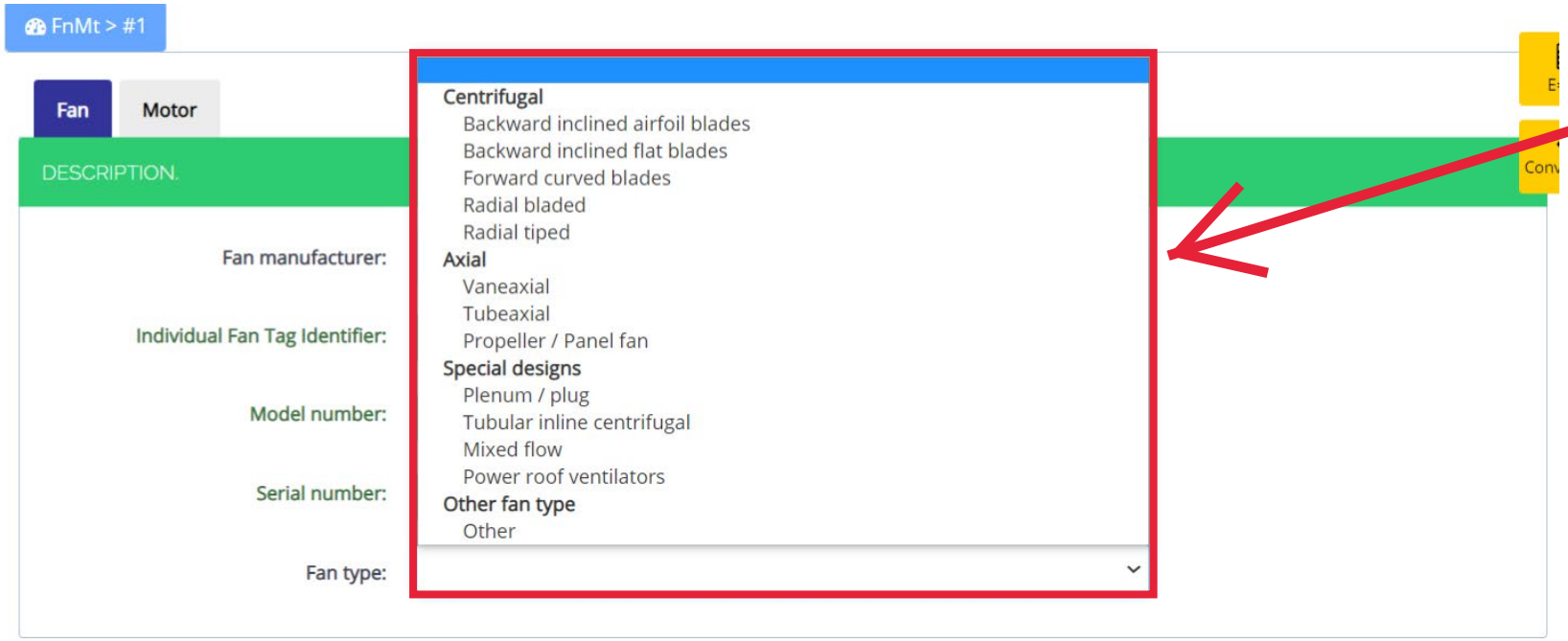
Number Of Fan Motors: 1

← Previous Step | Cancel | Next Step →

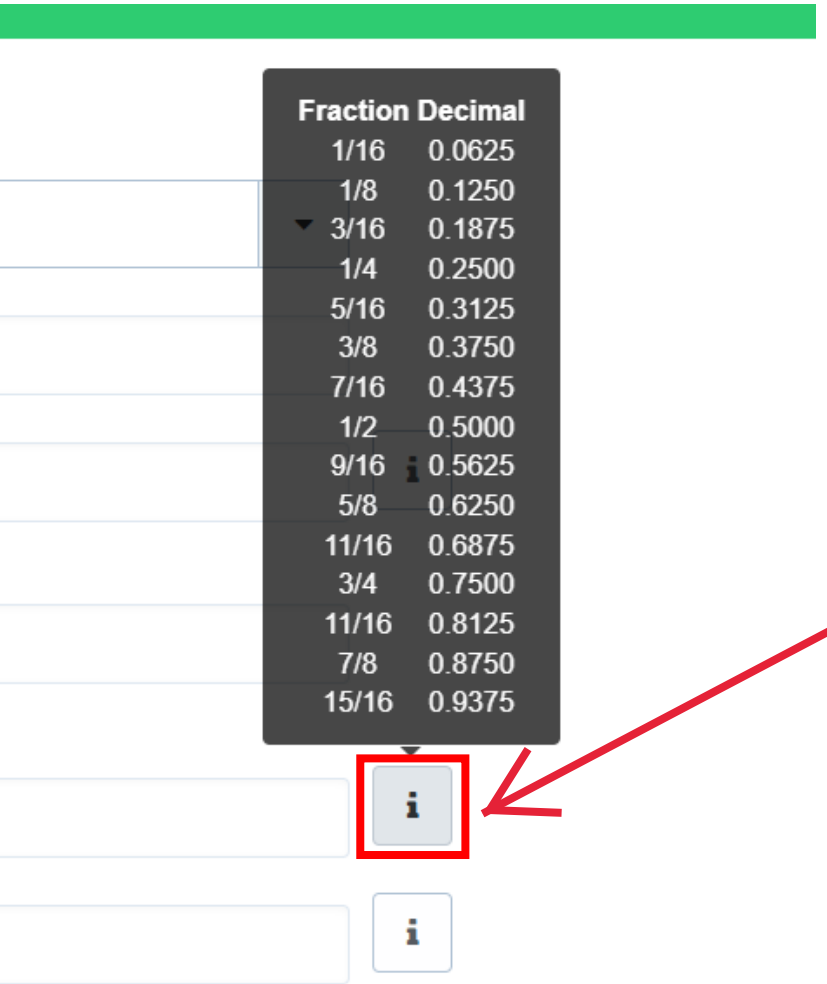
Enter Commissioning-2 Data



Enter Fan Nameplate Data



Select the correct fan type.



AMP software does not use fractions.

An information icon will be shown on the right of the data entry field to assist with conversions.

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Enter Fan Data Continued

FAN/MOTOR DRIVE TYPE

Direct drive fan system: ☐

Fan sheave manufacturer: Select Fan Sheave Manufacturer

Fan sheave stamping (Full stamping): Fan Sheave Stamping

Fan sheave stamping dimension Inches: 0.00

Half of the fan sheave dimension from outer edge of pulley to just the face of the fan shaft Inches: 0.00

Fan Shaft Diameter Inches: 0.0000

Fan Blade Outer Edge to Fan Blade Inner Edge Length Inches: 0.0000 (For Fan Tip Speed Calculation)

Fan sheave dimension measured Inches:

FAN SHEAVE TYPE AND BORE

Fixed bore fan sheave: ☐

Fan bushing stamping: Fan bushing stamping

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FAN SHEAVE TYPE AND BORE

Fixed bore fan sheave: ☐

Fan bushing stamping: Fan bushing stamping

COMMISSIONING CONTINUED

Dirty Fan Blades: ☐ Fan Blades loose: ☐ Fan Blades Missing: ☐

Motor / Fan pulley Alignment
- ○ No Issues Apparent
- ○ Miss-Aligned At Time Of Report Generation
- ○ Miss-Aligned But Corrected At Time Of Report Generation

Belt(s) Looseness:
- ○ No Issues Apparent
- ○ Loose At Time Of Report Generation
- ○ Loose But Corrected At Time of Report Generation

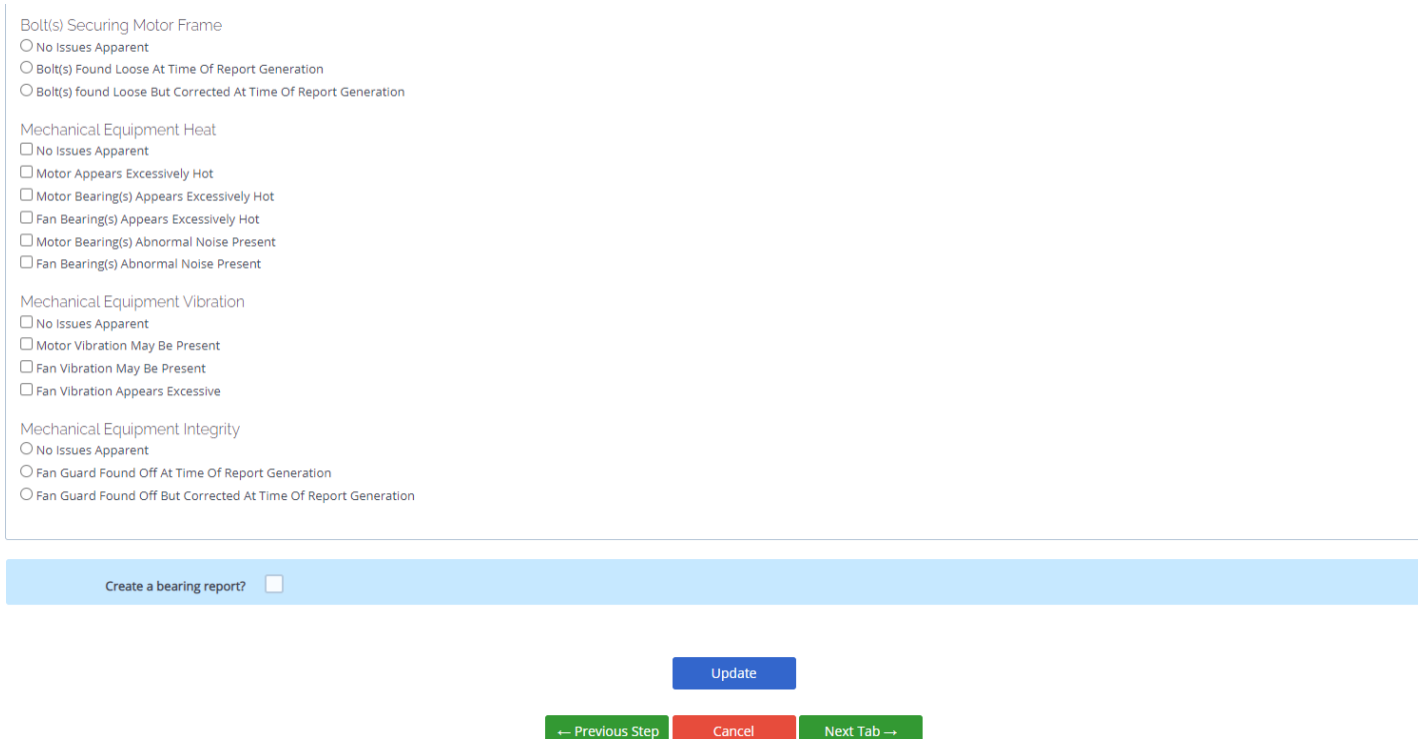
Belt Tension
- ○ No Issues Apparent
- ○ Overtightened At Time Of Report Generation
- ○ Overtightened But Corrected At Time Of Report Generation

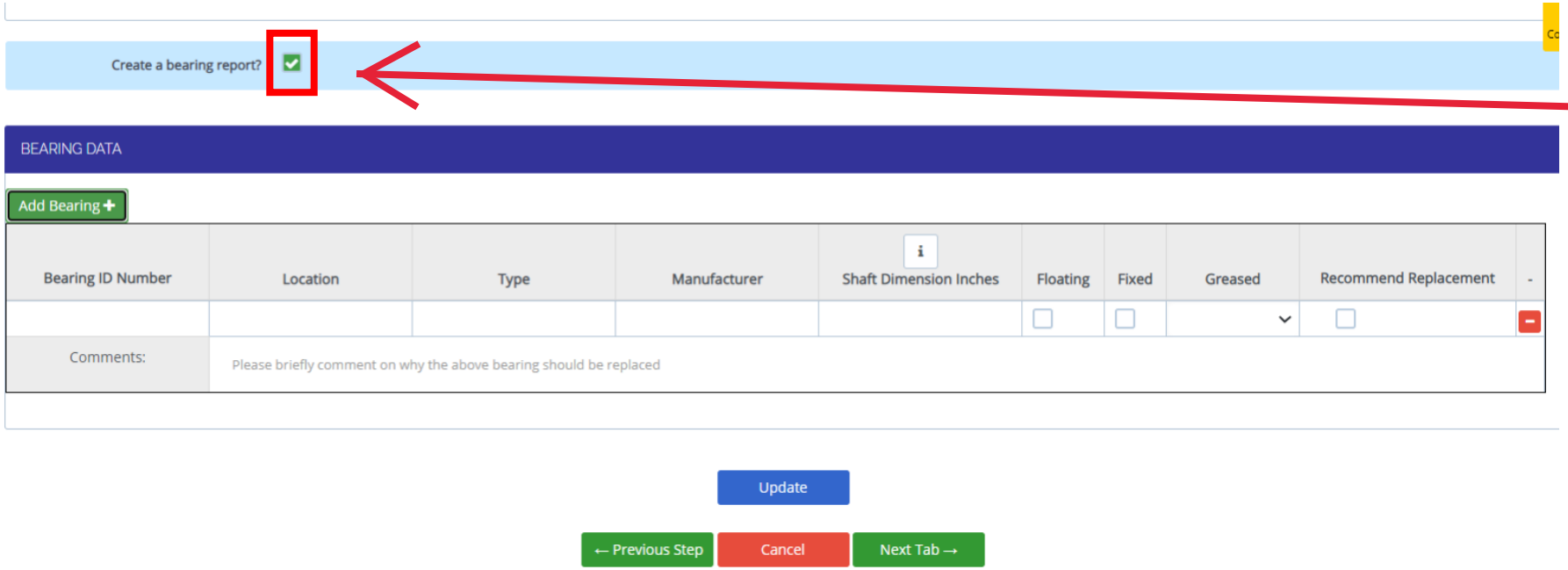
Motor Frame Alignment
- ○ No Issues Apparent
- ○ Motor Pulley Is Slightly Out Of Plane (Cocked) With Regards To Fan Pulley, Which Is Still The Condition
- ○ Motor Pulley Is Slightly Out Of Plane (Cocked) With Regards To Fan Pulley, But Corrected At Time Of Report Generation

Bolt(s) Securing Motor Frame

Enter Fan and Commissioning Data Continued

Enter Fan Commissioning Data Continued





If the fan has bearings, check the box to create a bearing report.

Fan sheave stamping (Full stamping):	2VP45
Fan sheave stamping dimension Inches:	4.5000
Half of the fan sheave dimension from outer edge of pulley to just the face of the fan shaft Inches:	1.4000
Fan Shaft Diameter Inches:	0.8750
Fan Blade Outer Edge to Fan Blade Inner Edge Length Inches:	0.0000 (For Fan Tip Speed Calculation)
Fan sheave dimension measured Inches:	3.68

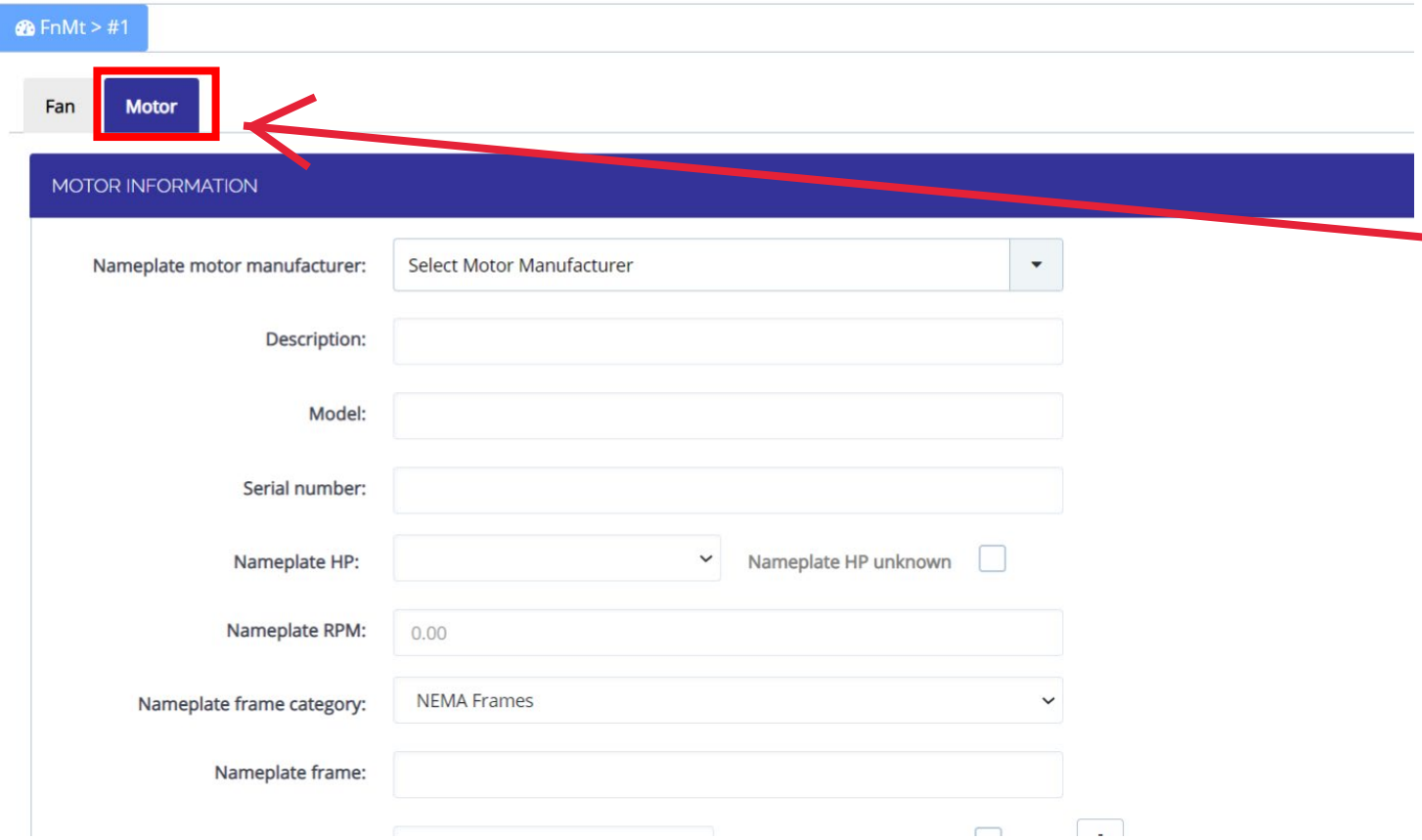
WARNING
Please review dimension entered. Difference in dimensions exceeds built-in tolerance.
Fan Sheave Dimension Measured value should be between 4.25 and 4.75 (In) regarding the actual Fan Sheave Stamping Dimension value.

AMP software will internally verify sheave measurements and show a warning if the sheave dimensions are out of tolerance.

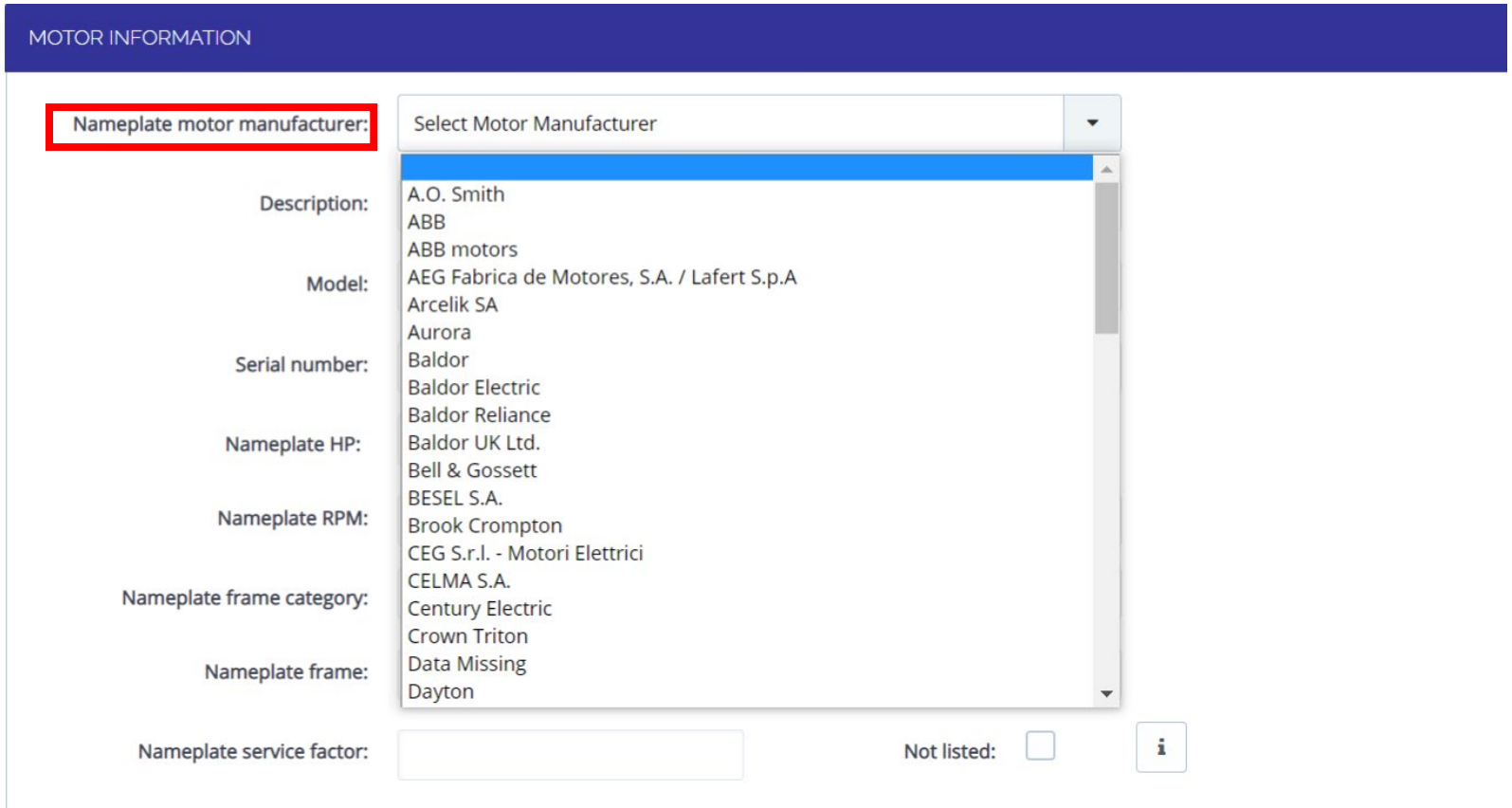
Fan sheave stamping (Full stamping):	2VP45
Fan sheave stamping dimension Inches:	4.5000
Half of the fan sheave dimension from outer edge of pulley to just the face of the fan shaft Inches:	1.8500
Fan Shaft Diameter Inches:	0.8750
Fan Blade Outer Edge to Fan Blade Inner Edge Length Inches:	0.0000 (For Fan Tip Speed Calculation)
Fan sheave dimension measured Inches:	4.58

FAN SHEAVE TYPE AND BORE

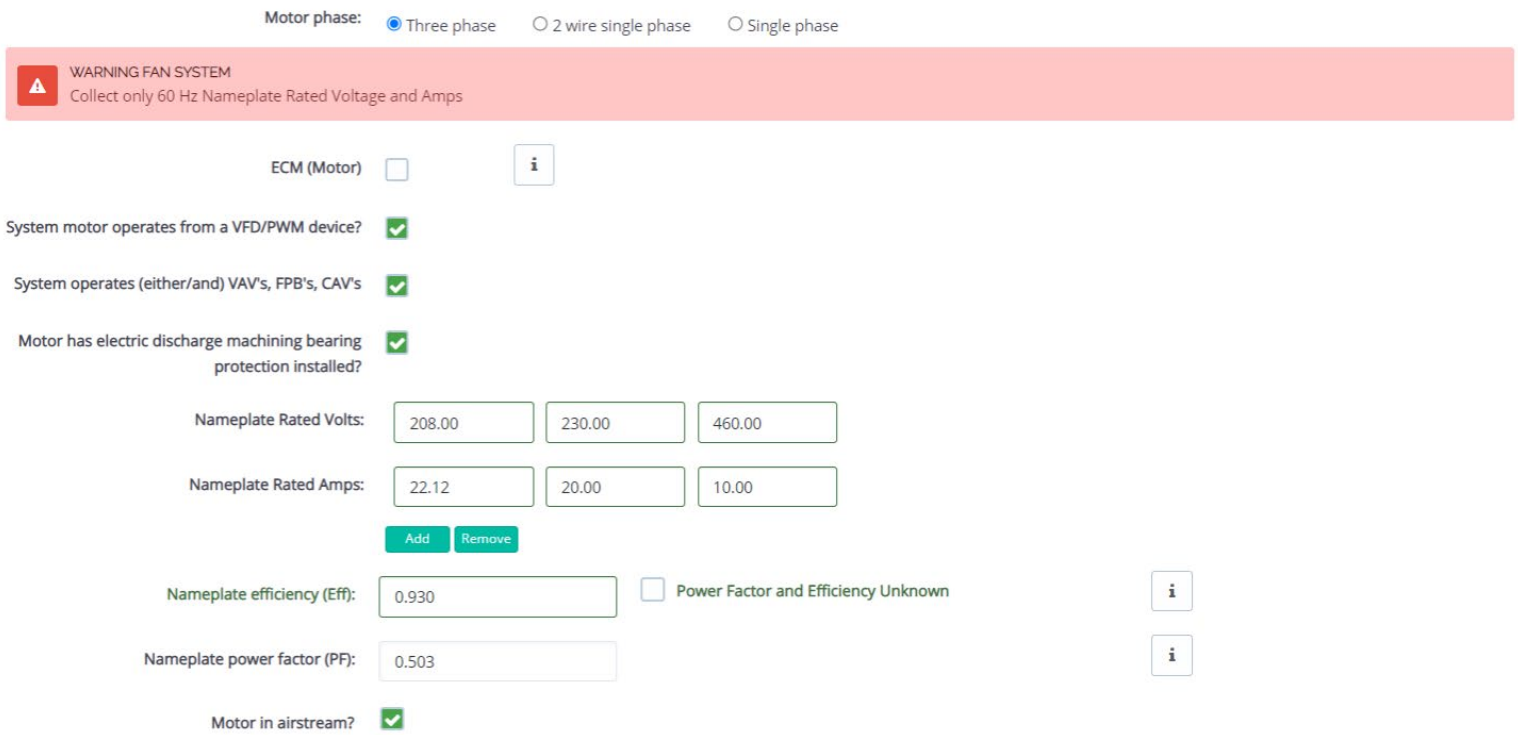
Once sheave values are corrected to within tolerance, the warning will disappear.



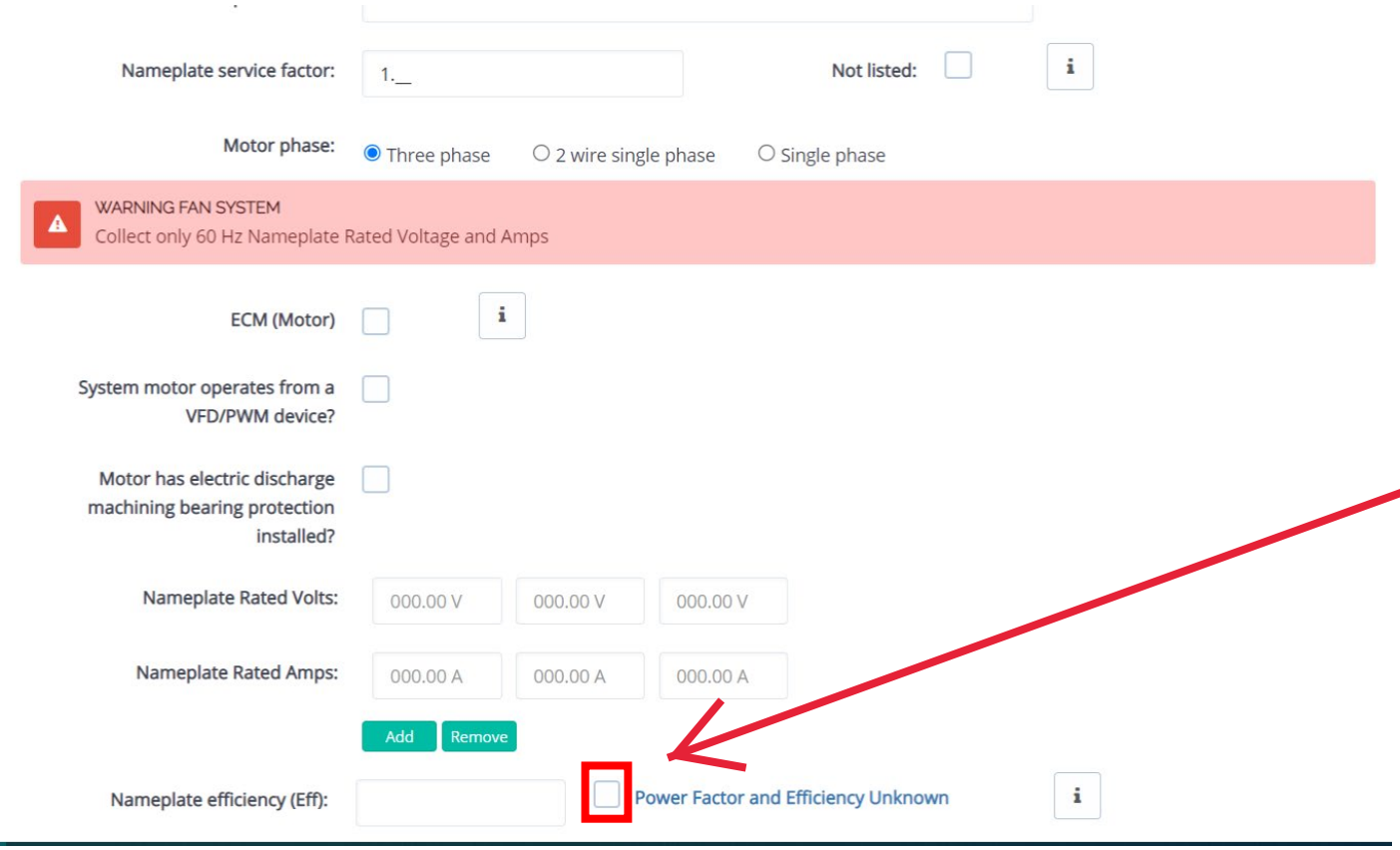
Enter Motor Information



Select Motor Manufacturer



Enter mode of operation and nameplate data.



If Power Factor and Efficiency are Unknown, check this box and it will show a default value that will be used in motor calculations.

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SHEAVE

Motor sheave manufacturer:	Browning
Motor sheave stamping (full stamping):	2VP64
Motor sheave stamping dimension Inches:	6.4000
Half of the motor sheave dimension from outer edge of pulley to just the face of the motorshaft Inches:	2.9000
Motor shaft diameter Inches:	.5
Motor sheave dimension measured Inches:	6.30

Enter Sheave Information

Audit Master PRO

Enter Motor Information Continued

MOTOR SHEAVE TYPE AND BORE

Motor sheave: (•) Fixed ( ) Adjustable

Motor sheave bushing installed: [ ]

BELT

Quantity of fan/motor belt(s) required: 0

Belt type: Select Belt Type

Belt size: 0.00 In

Center of motor shaft to center of fan shaft distance: 0.00 In

Audit Master PRO

Belt size:	0.00	In
Center of motor shaft to center of fan shaft distance:	0.00	In
Motor base/frame adj in:	0.00	In
Motor base/frame adj out:	0.00	In

Update

← Previous Tab | Cancel | Next Step →

Enter Information

Audit Master PRO

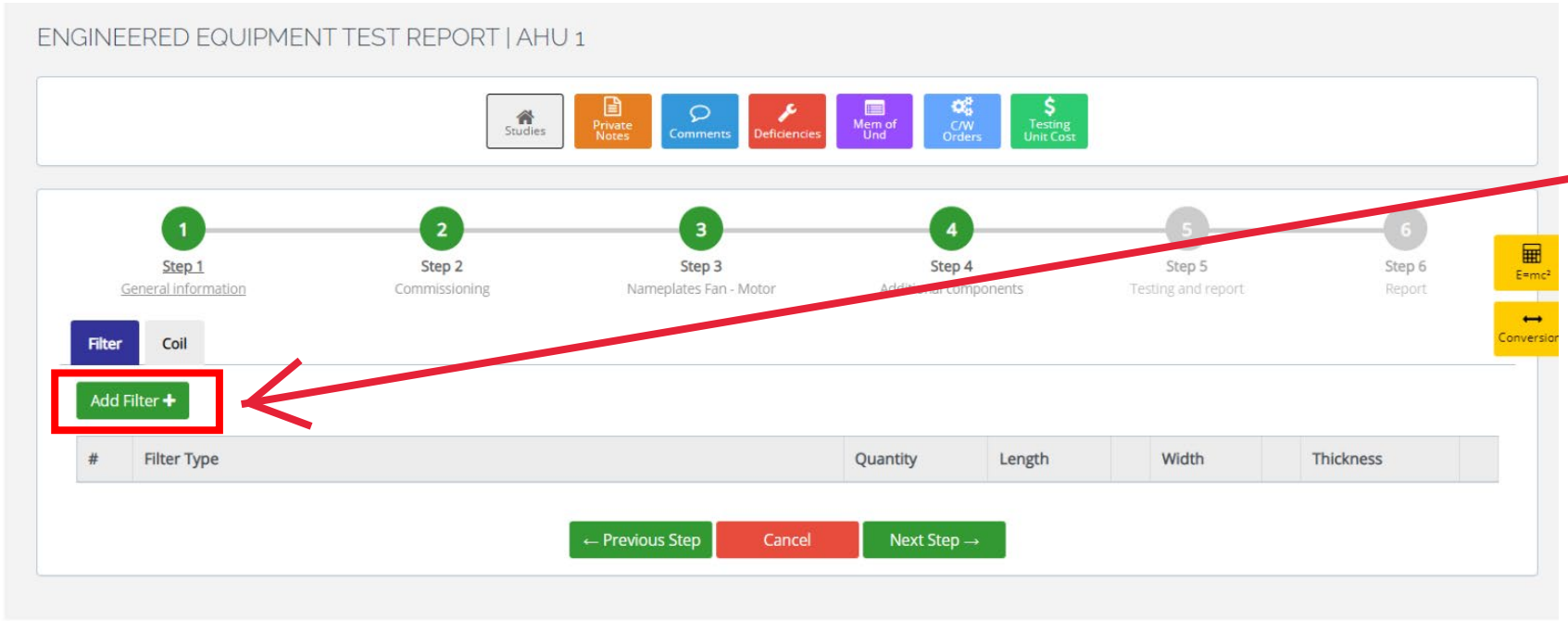
BELT

Quantity of fan/motor belt(s) required:	2	
Belt type:	AX	
Belt size:	50.000	In
Center of motor shaft to center of fan shaft distance:	22.000	In
Motor base/frame adj in:	1.250	In
Motor base/frame adj out:	2.500	In

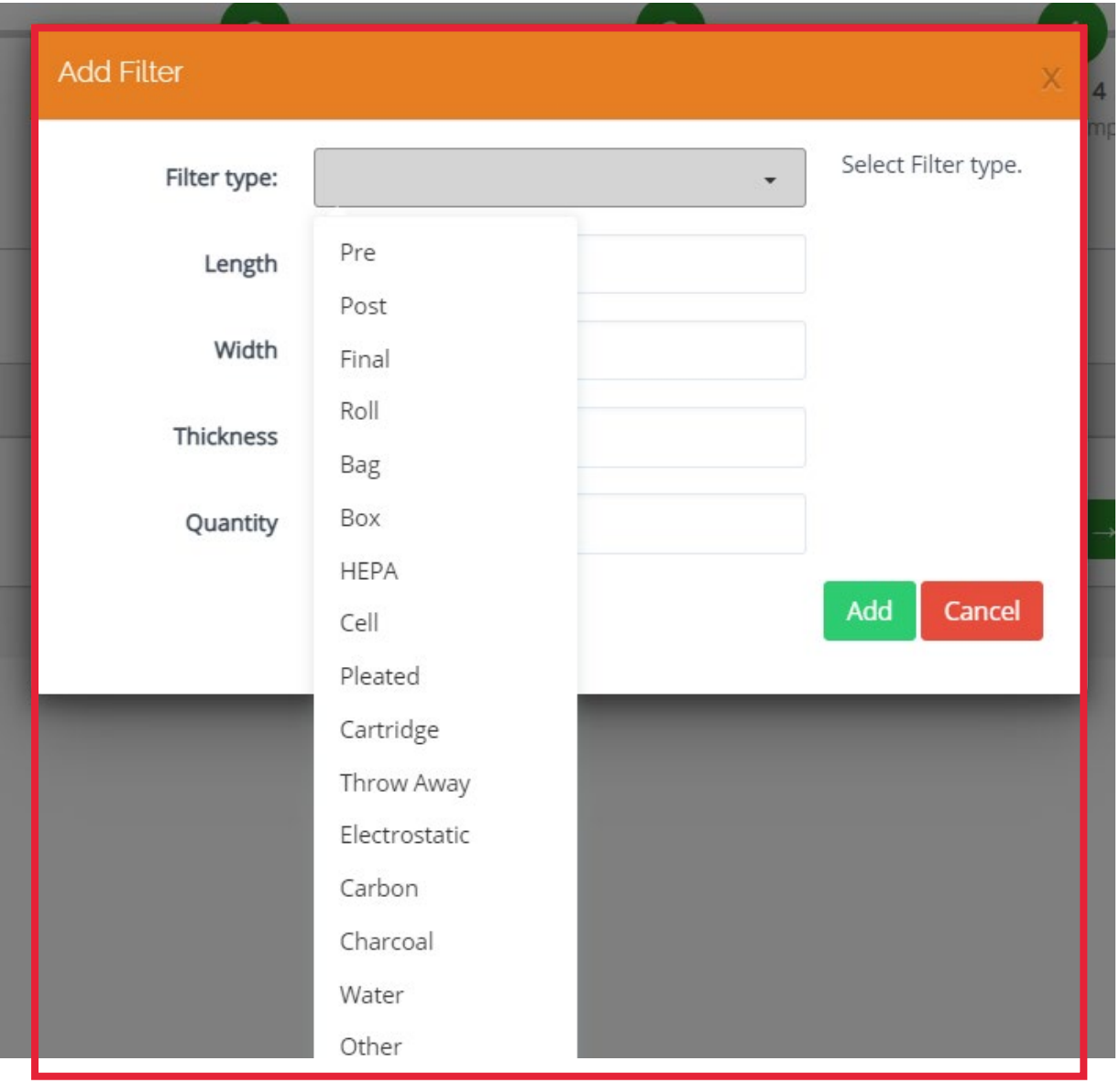
Update

Enter Belt Information

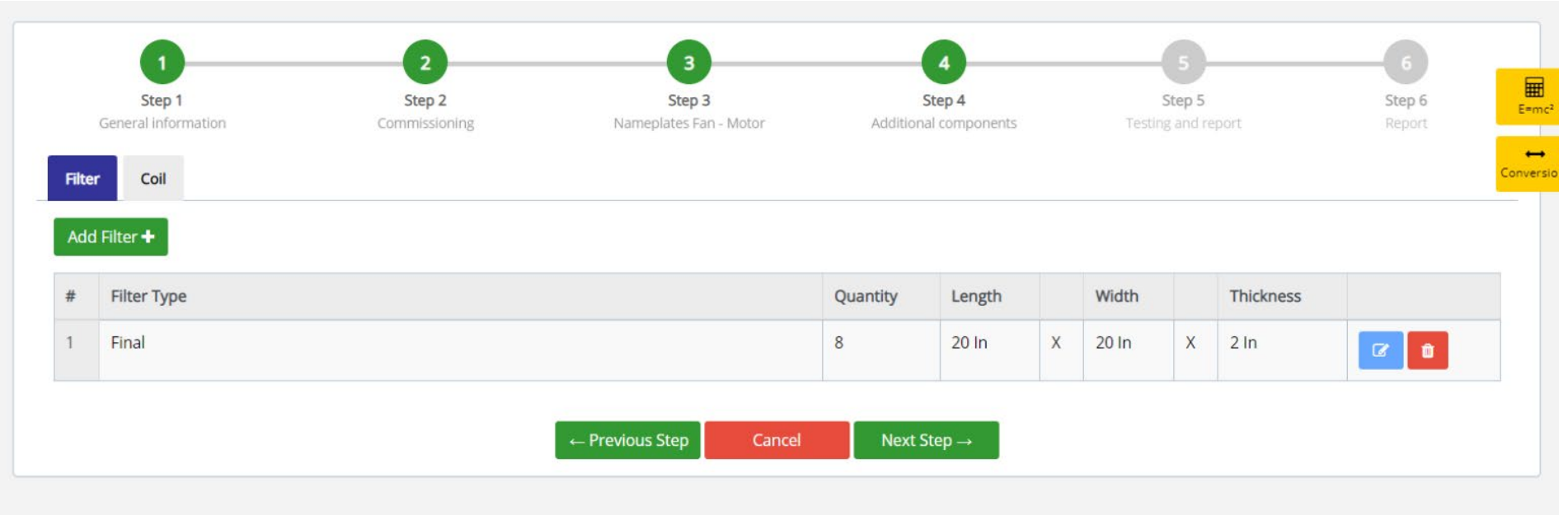
Audit Master PRO



Add Filter Information

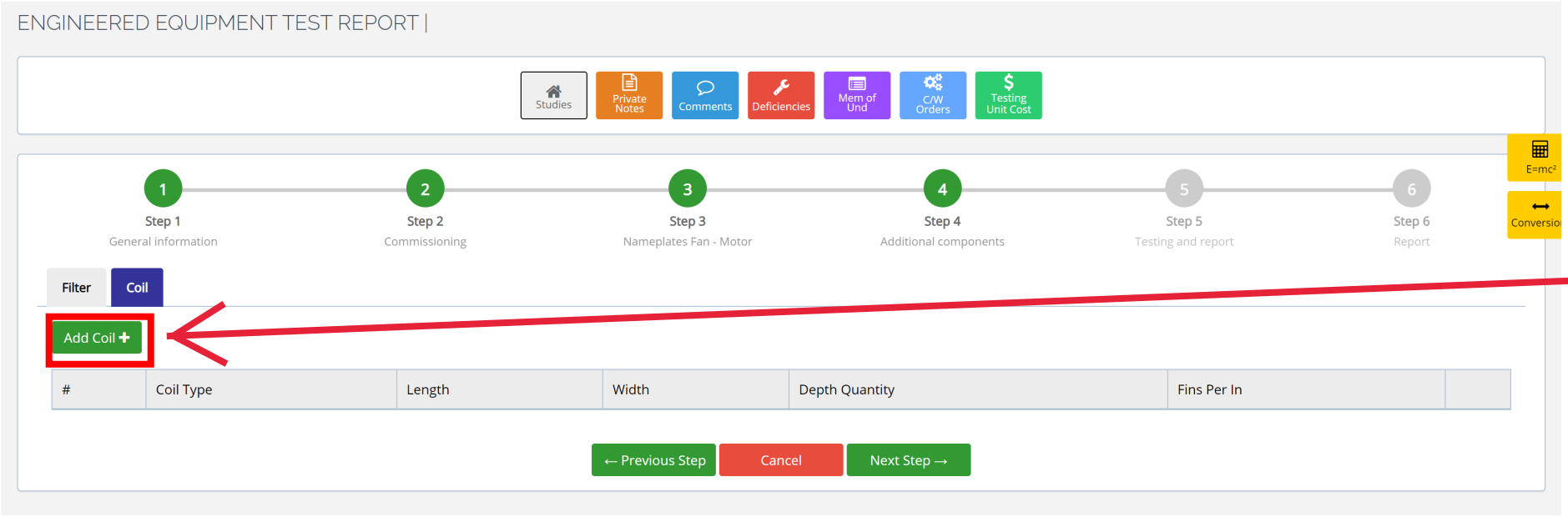


Enter filter type from drop down and then continue with the remaining filter information.



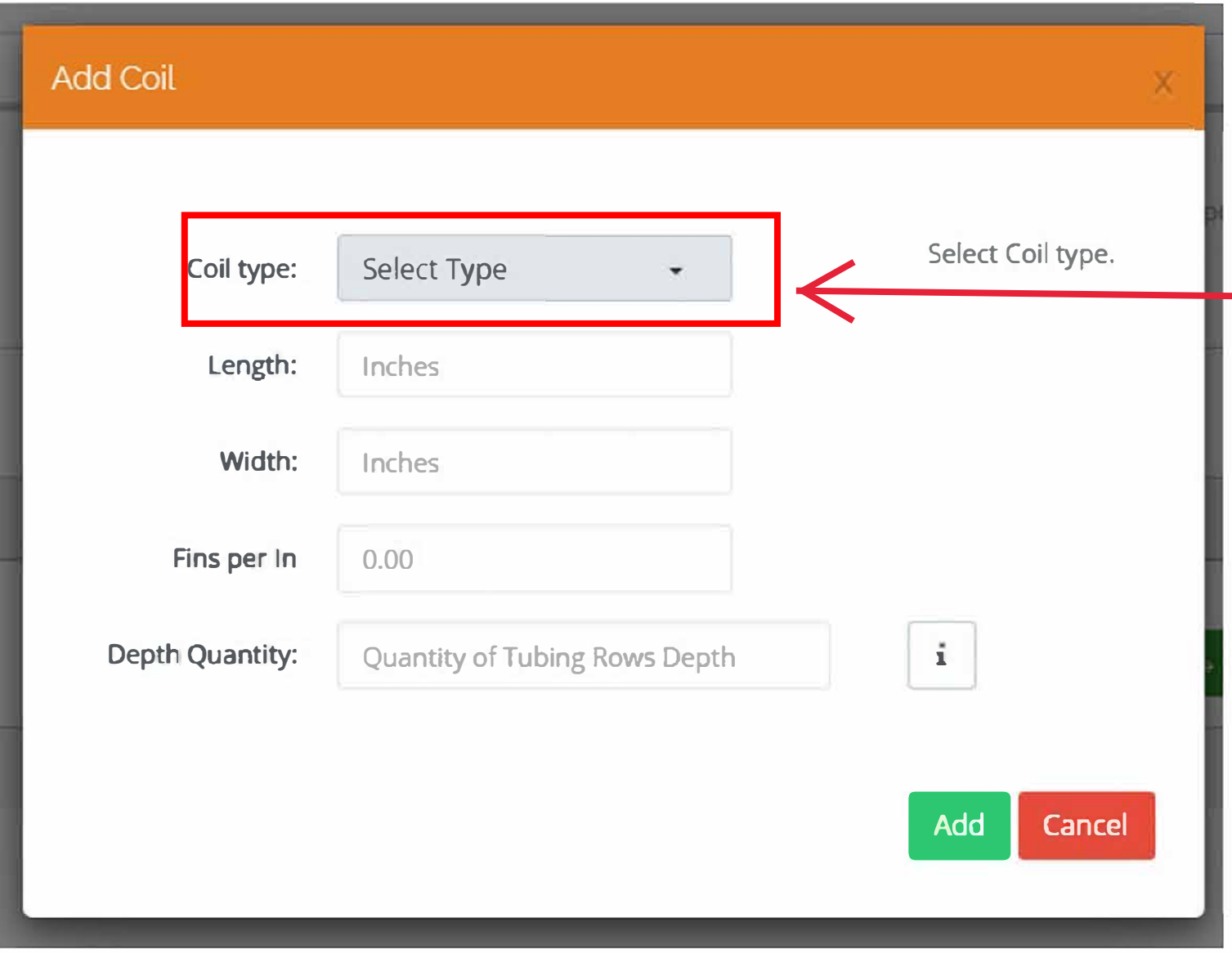
This is how filter information will be shown.

Multiple sets of filters can be added to match the systems design.

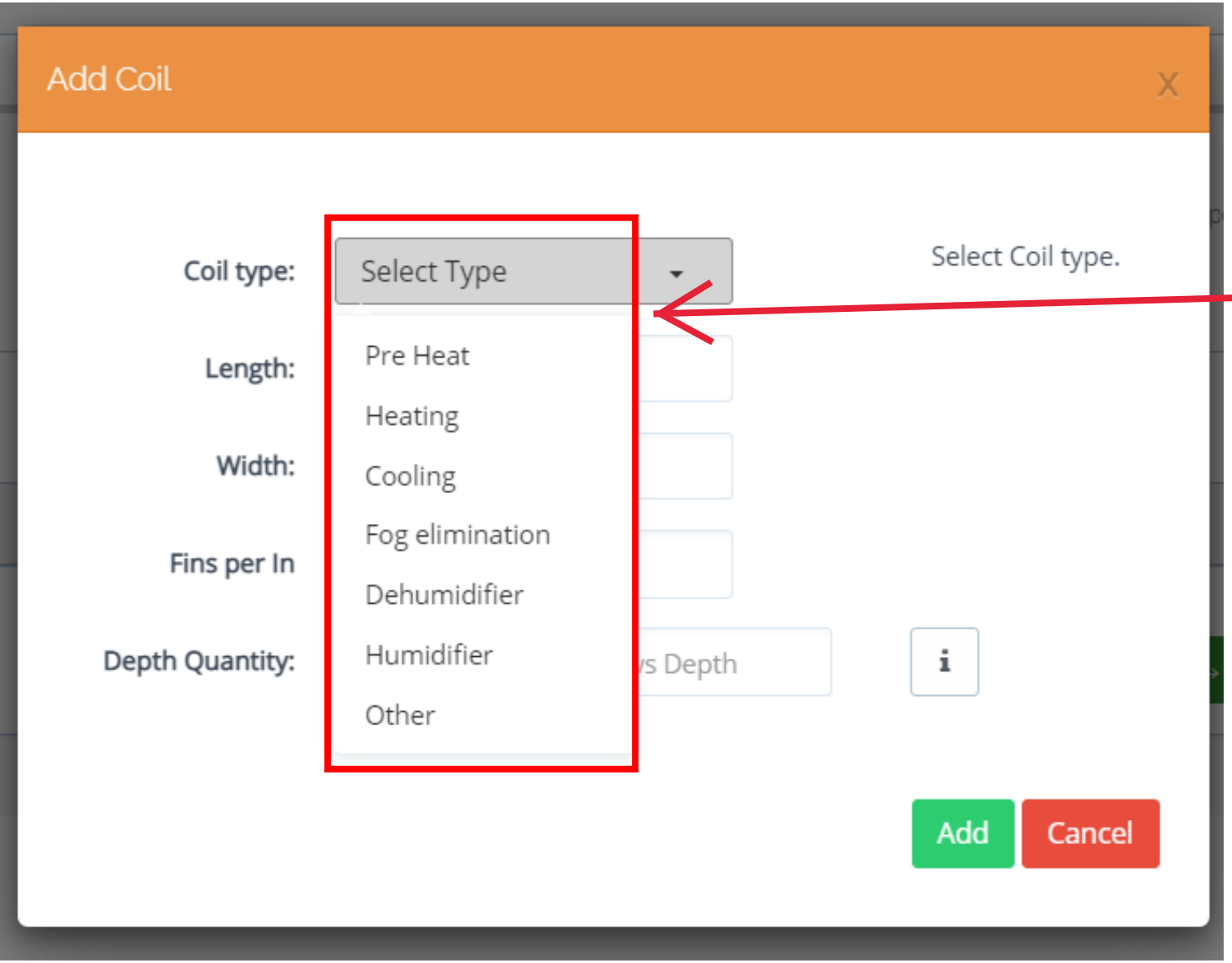


Click to add coil information

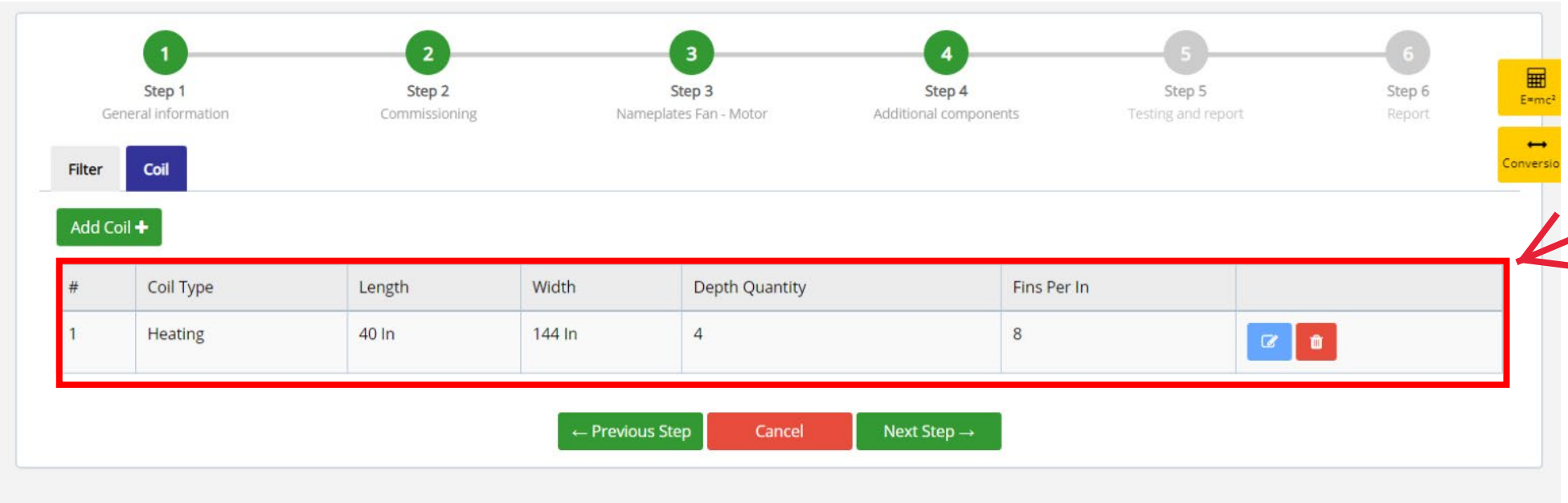
Multiple sets of coils can be added to match the systems design.



Select "Coil Type" before completing the remaining coil information.

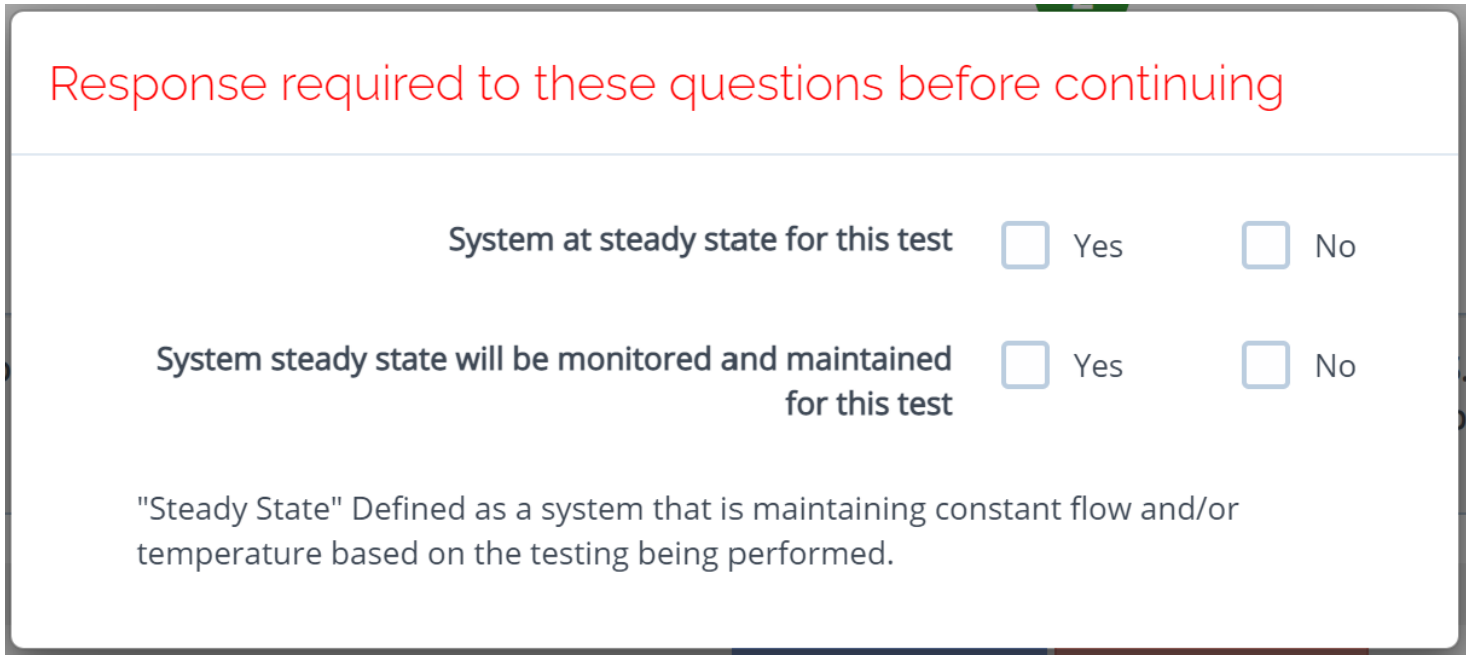


This is the drop down for selecting "Coil Type."



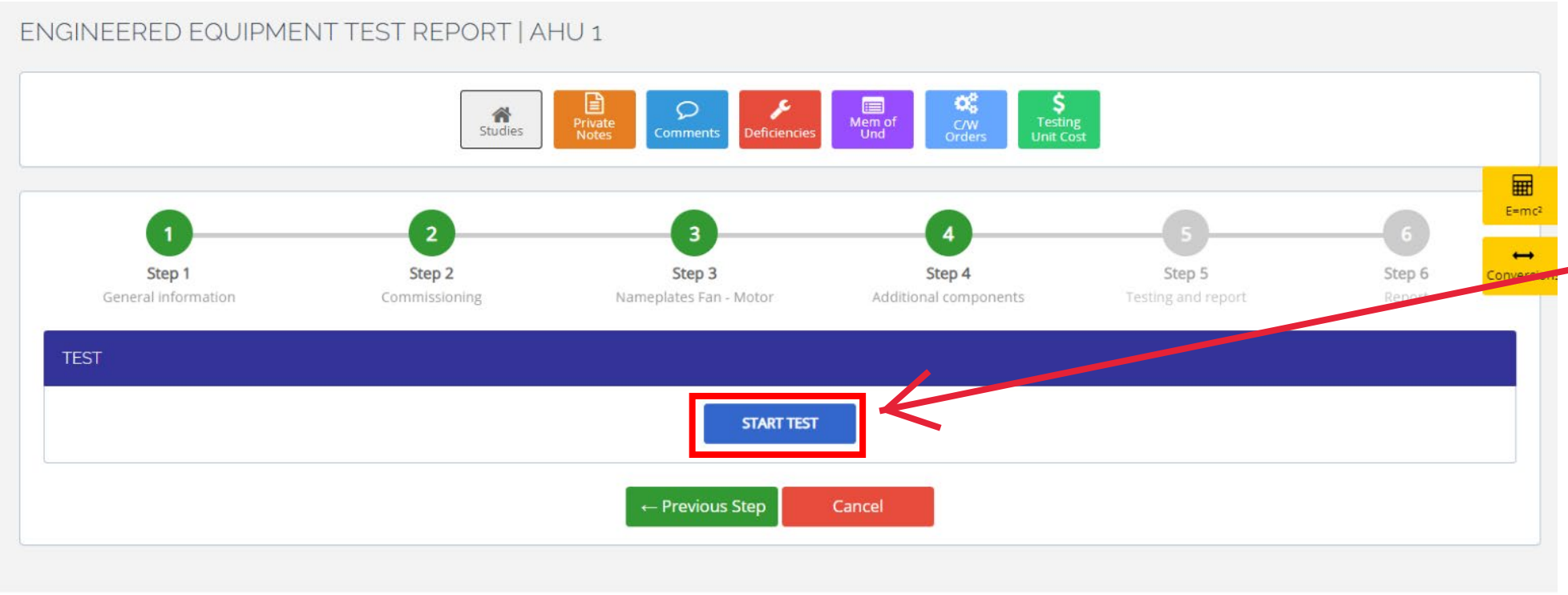
Coils Entered

Note: You can add as many coils as needed.



Throughout the AMP software you will be required to verify that the system being tested is at steady state.

Steady state is critical to testing as it ensures that any readings or calibrations are repeatable.


ENGINEERED EQUIPMENT TEST REPORT | AHU 1
Studies
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Comments
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Testing Unit Cost
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Step 1
General information
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Step 3
Nameplates Fan - Motor
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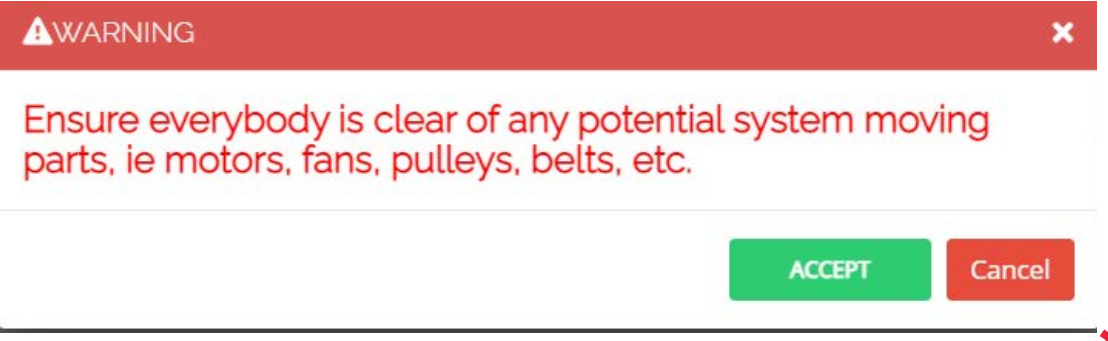
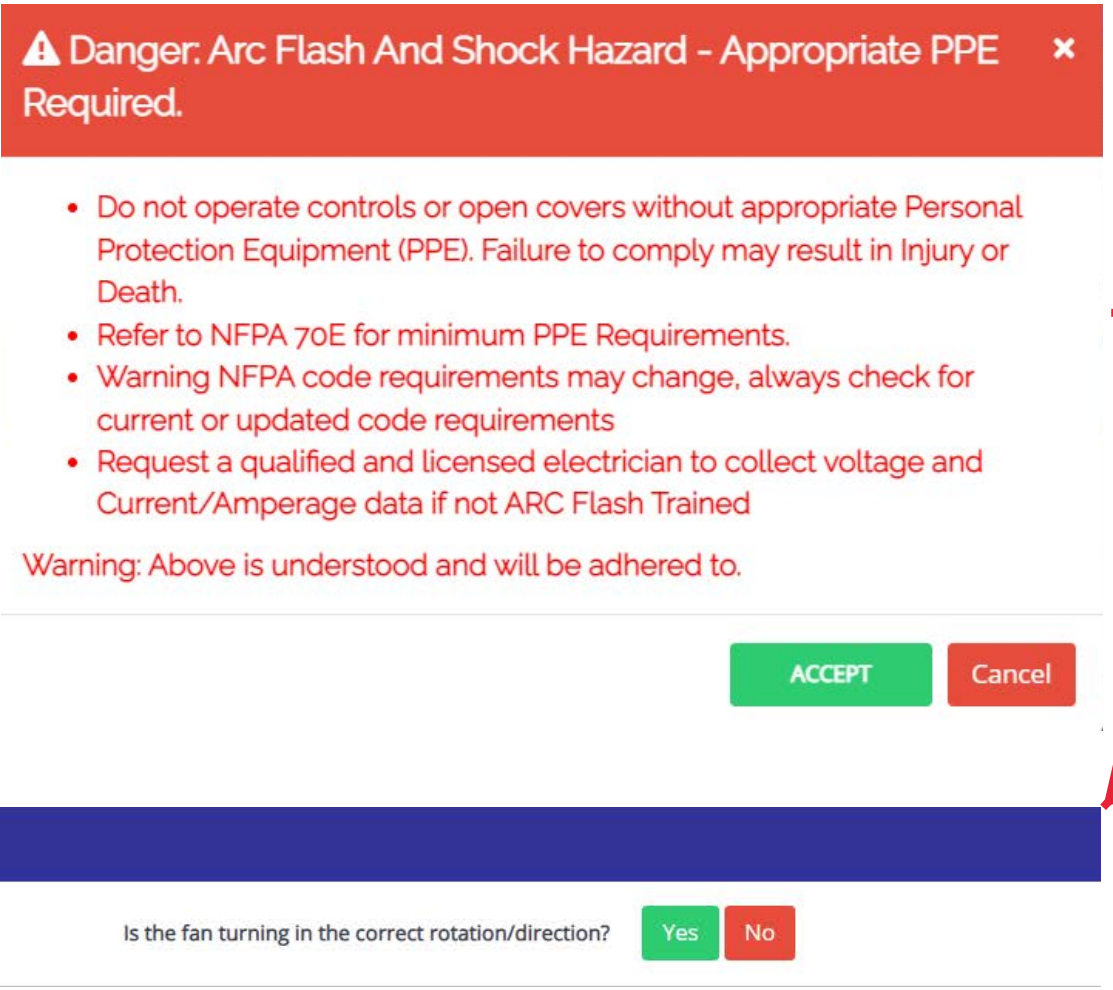
Step 4
Additional components
5
Step 5
Testing and report
6
Step 6
TEST
START TEST
← Previous Step
Cancel

"Start Test"

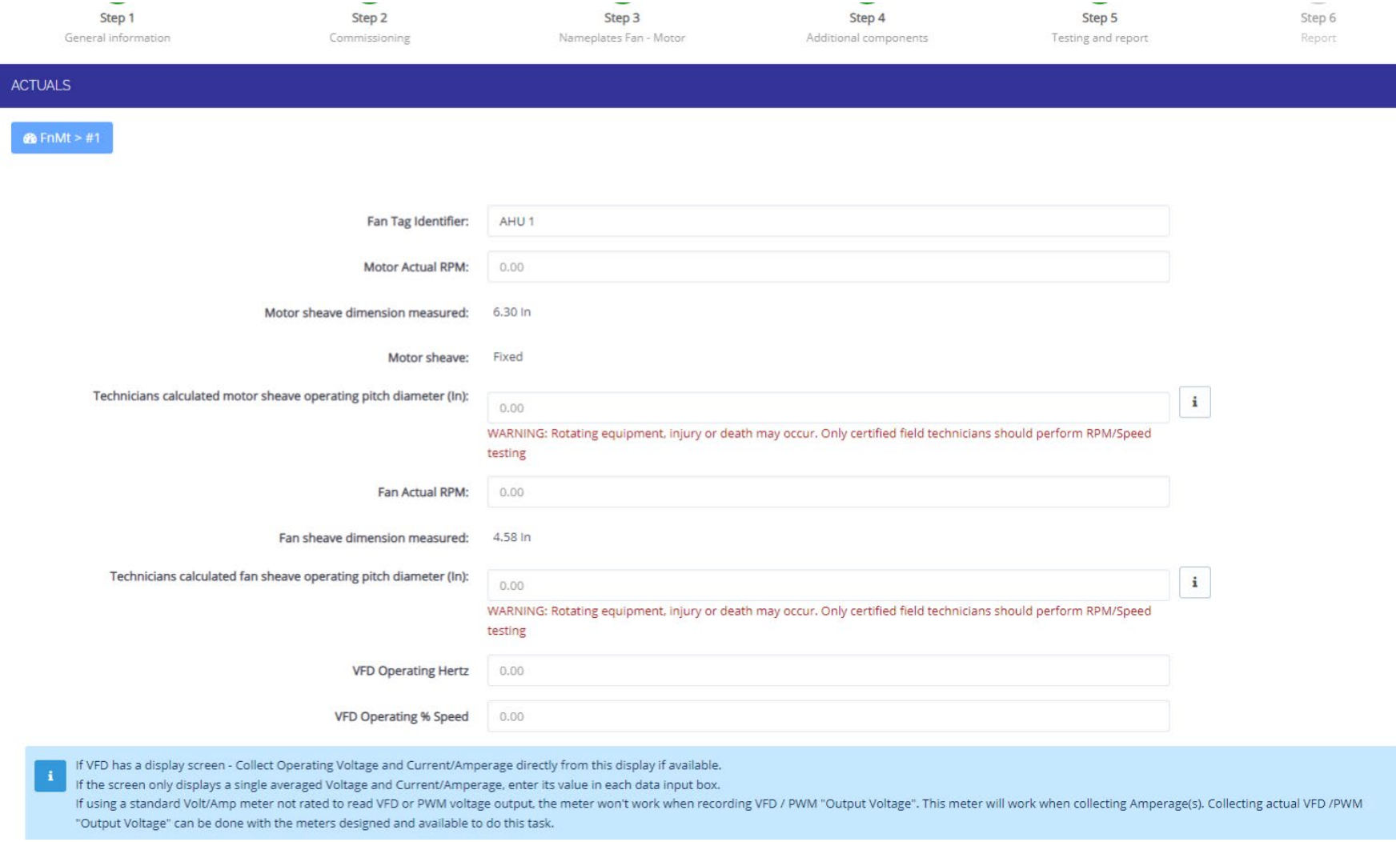




These are three of the most common safety warnings that will appear throughout AMPs software.

You will be required to acknowledge each warning individually in order to proceed.

Audit Master PRO

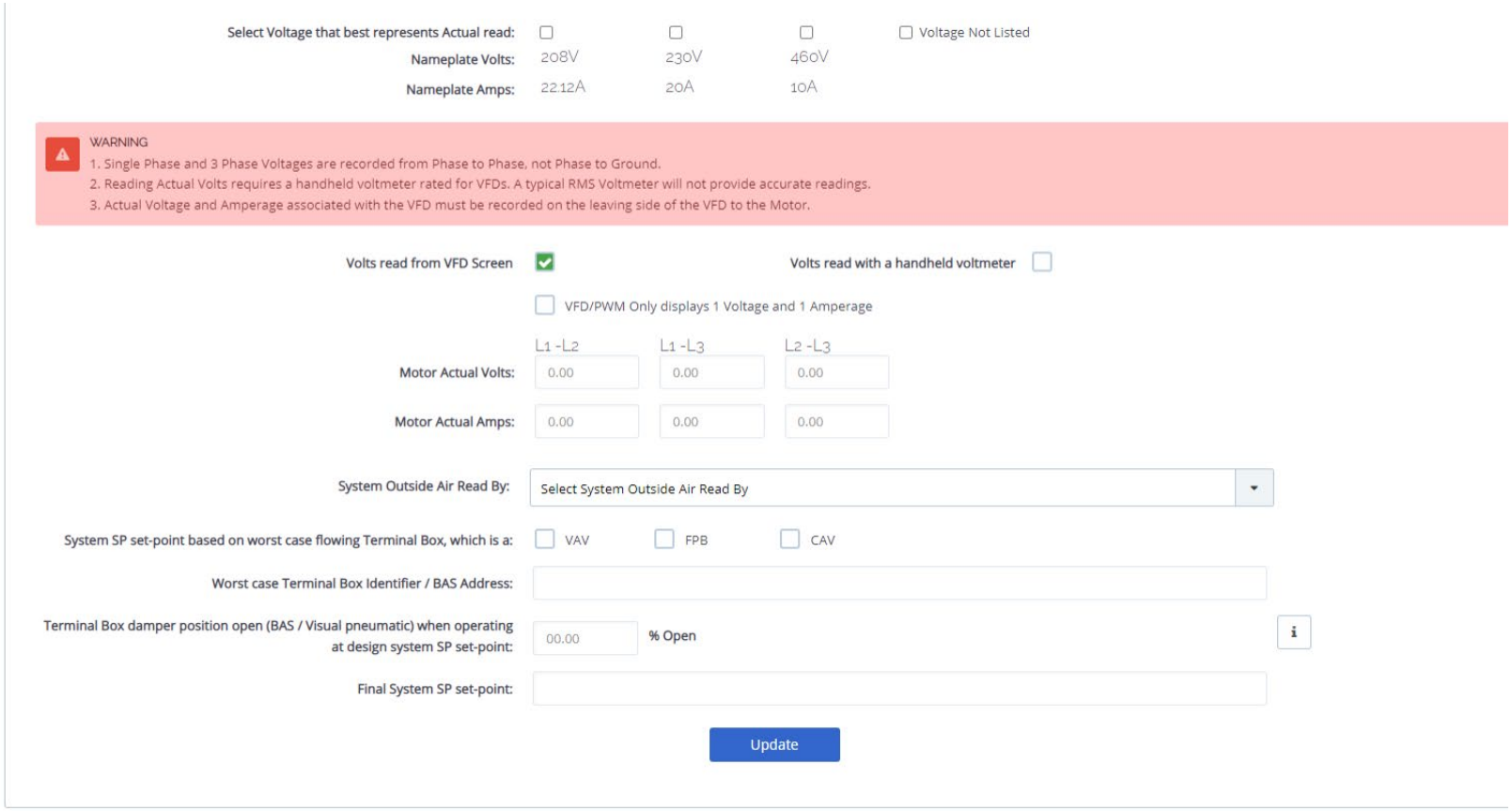


Enter Motor Actuals

Note: Only a certified technician can enter actual data.

Audit Master PRO

Enter Actual Data Continued



VFD Operating % Speed

If VFD has a display screen - Collect Operating Voltage and Current/Amperage directly from this display if available.
If the screen only displays a single averaged Voltage and Current/Amperage, enter its value in each data input box.
If using a standard Volt/Amp meter not rated to read VFD or PWM voltage output, the meter won't work when recording VFD / PWM "Output Voltage". This meter will work when collecting Amperage(s). Collecting actual VFD /PWM "Output Voltage" can be done with the meters designed and available to do this task.

RECOMMENDATION:
Use VFD/PWM display data to collect actual Volts and Amps

Select Voltage that best represents Actual read:	☐	☐	☐	☐ Voltage Not Listed
Nameplate Volts:	208V	230V	460V	
Nameplate Amps:	22.12A	20A	10A	

Select the actual operating motor Volts and Amps.

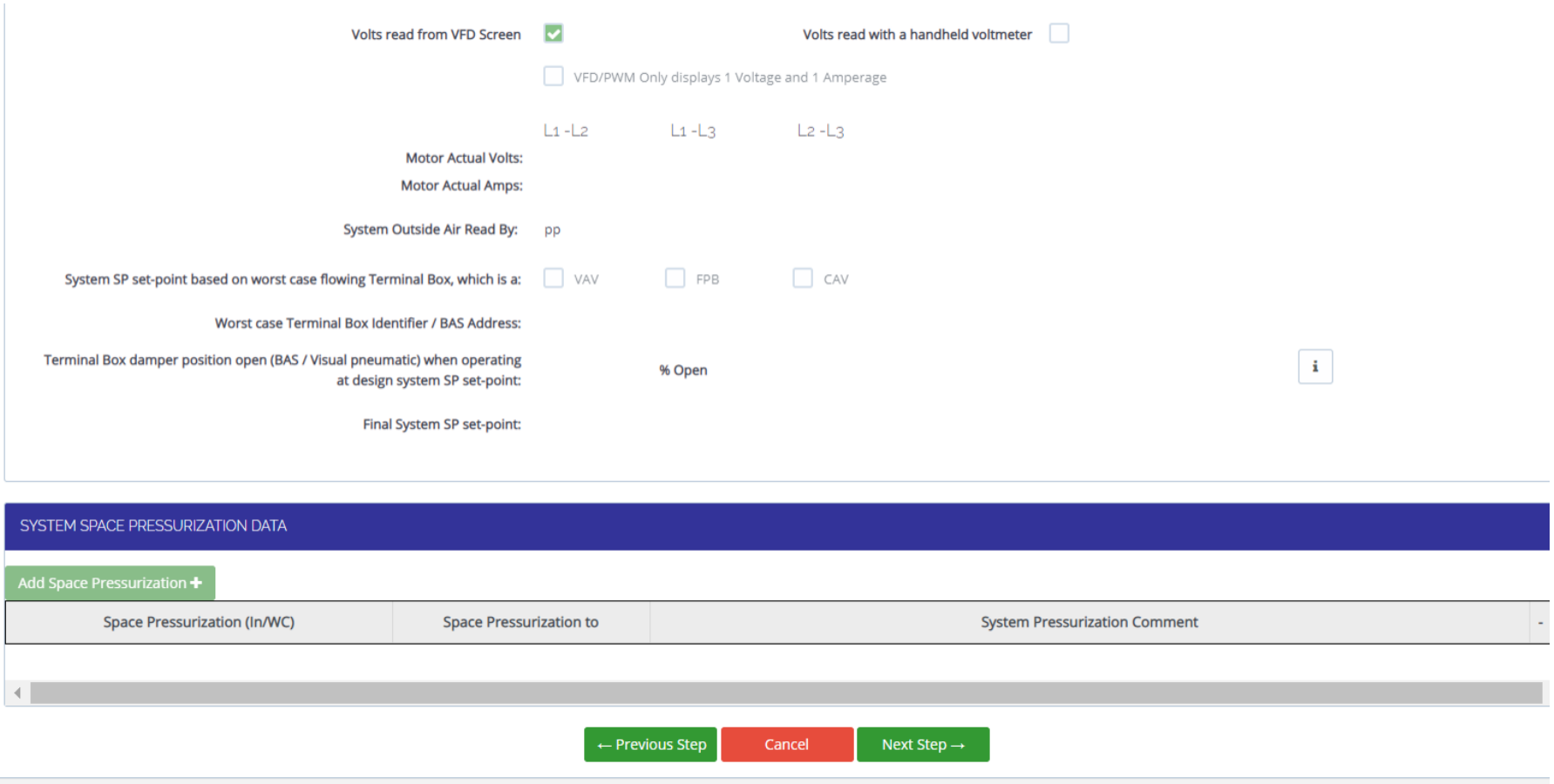
WARNING
1. Single Phase and 3 Phase Voltages are recorded from Phase to Phase, not Phase to Ground.
2. Reading Actual Volts requires a handheld voltmeter rated for VFDs. A typical RMS Voltmeter will not provide accurate readings.
3. Actual Voltage and Amperage associated with the VFD must be recorded on the leaving side of the VFD to the Motor.

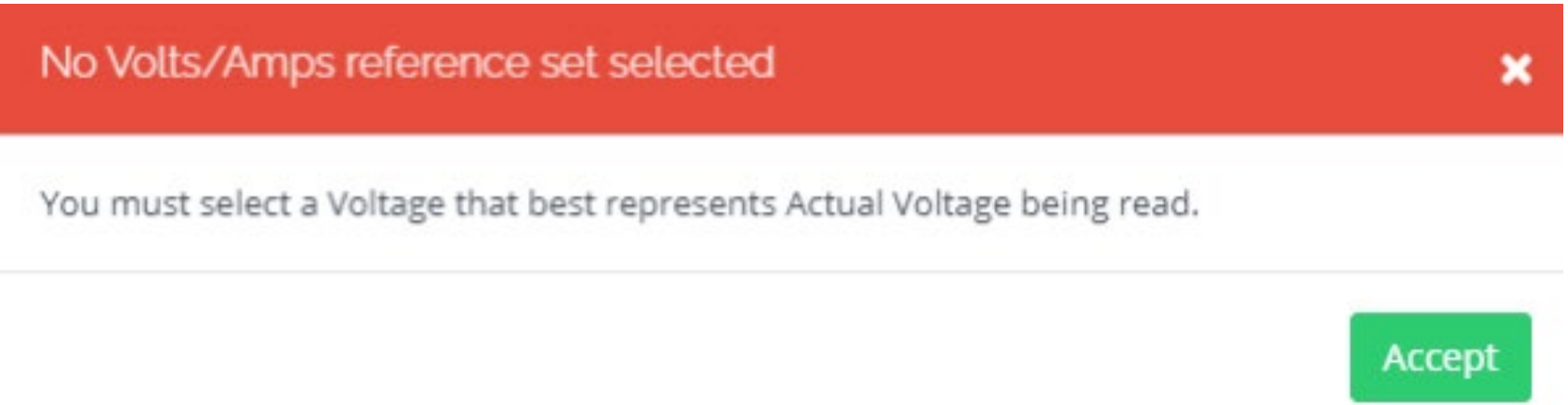
Volts read from VFD Screen ☑ Volts read with a handheld voltmeter ☐

☐ VFD/PWM Only displays 1 Voltage and 1 Amperage

Audit Master PRO

Enter Actual Data Continued





This warning will appear if you have not selected actual volts and amps.

FnMt > #1

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Audit Master PRO

Fan Tag Identifier: AHU 1

Motor Actual RPM: 1775

WARNING
Please review RPMs and Pitch Diameters entered. Data is inconsistent regarding actual Fan/Motor Pitch Diameter and Fan RPM. Range Warning is +-25.0 RPM.

Warnings will appear if entered data is not within tolerances.

Motor sheave dimension measured: 6.30 In

Motor sheave: Fixed

To calculate Motor Pitch Diameter go to E=mc^2 Formulas Use Motor Pitch Diameter

Technicians calculated motor sheave operating pitch diameter (In): 6.2

WARNING: Rotating equipment, injury or death may occur. Only certified field technicians should perform RPM/Speed testing

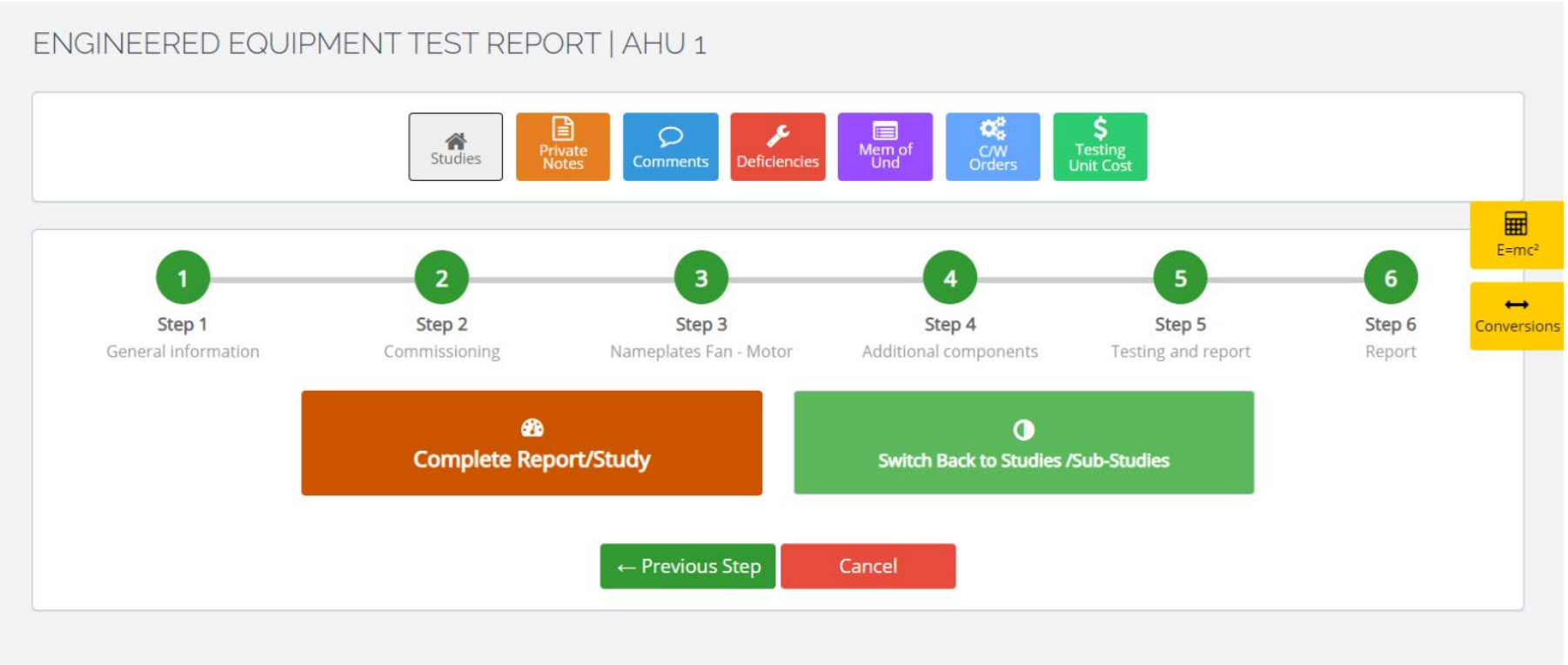
Fan Actual RPM: 2350

Fan sheave dimension measured: 4.58 In

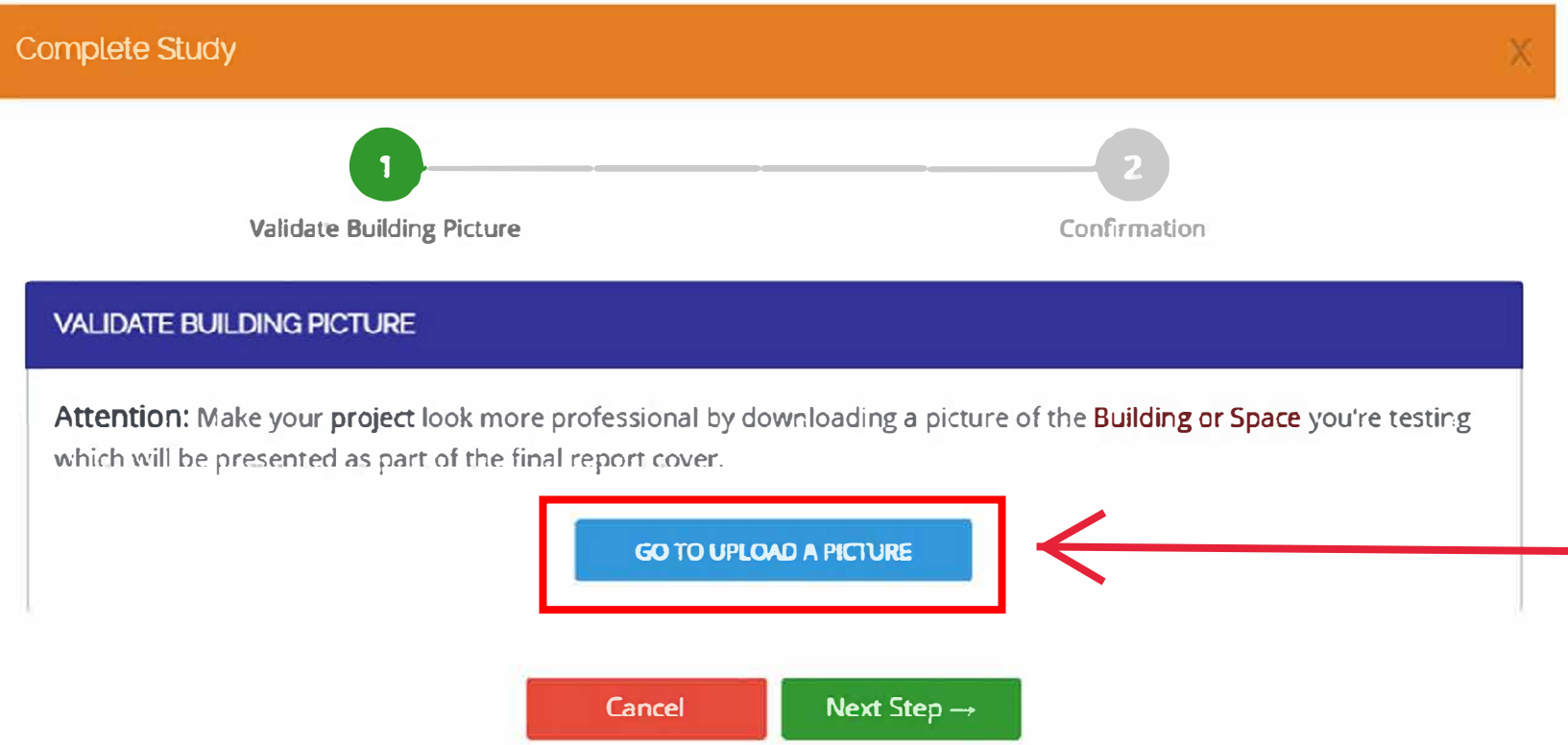
Technicians calculated fan sheave operating pitch diameter (In): 4.6

WARNING: Rotating equipment, injury or death may occur. Only certified field


Motor Actual Amps:
8.76
8.76
8.76
System Outside Air Read By:
Select System Outside Air Read By
System SP set-point based on worst case flowing Terminal Box, which is a:
Worst case Terminal Box Identifier / BAS Address:
Terminal Box damper position open (BAS / Visual pneumatic) when operating at design system SP set-point:
Final System SP set-point:
Reading actual outside airflow at source (Data sheet provided)
Temperature method
CO2 Method
Mathematically: Supply - Return = Outside Air
Not Part of project Scope
Outside air intake found innoperable
Outside air intake required - Wasn't installed
Not Applicable for this system
Other
Select method used to determine outside air.

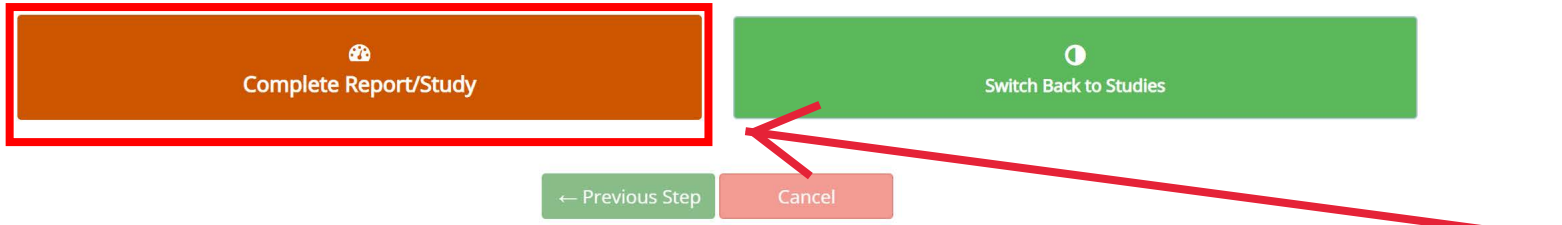


Complete Report/Study



Upload a picture of the building you are working on which will be displayed as the front page of the final report.

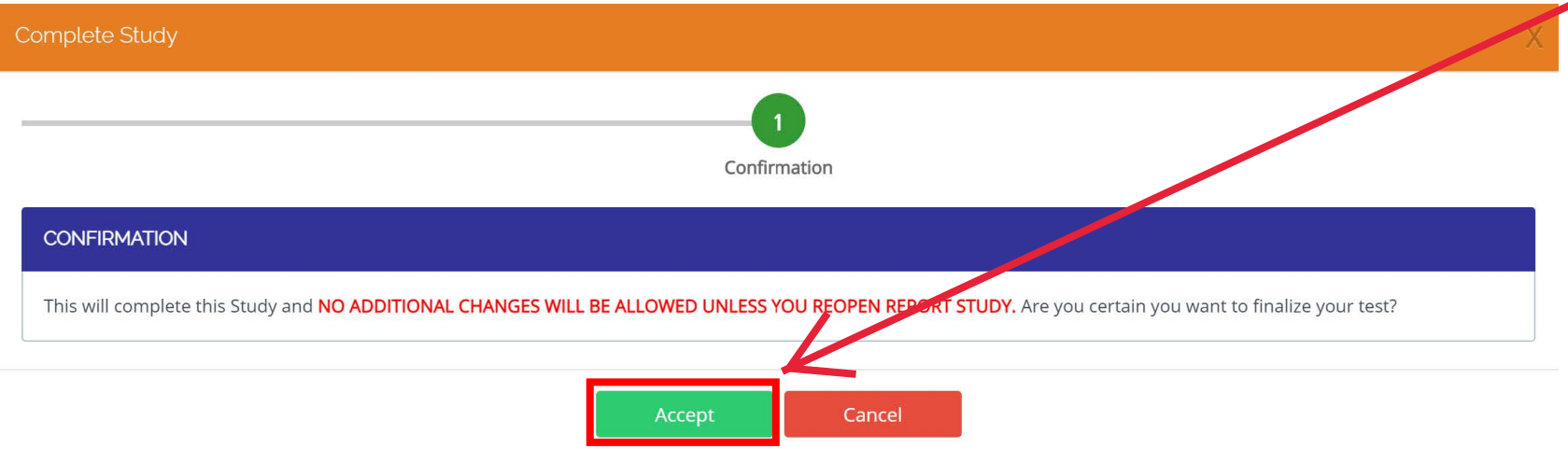
Tip: Enter the address into a search engine and copy the photo shown which best represents the building.



After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation



Audit Master Pro Training

Engineered Fan Array Report

This tutorial will act as a guide to create and input all data required for the selected air study.

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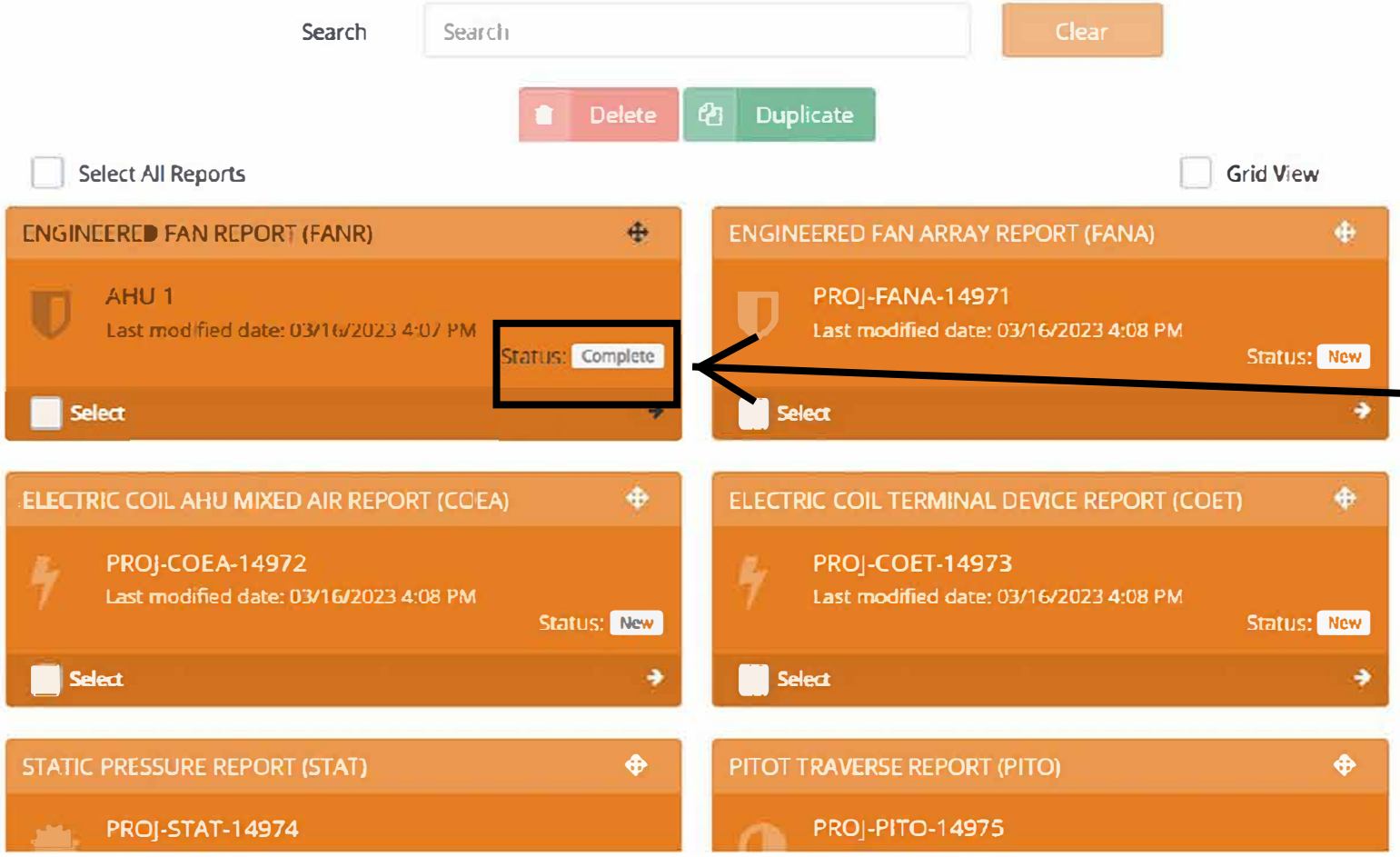
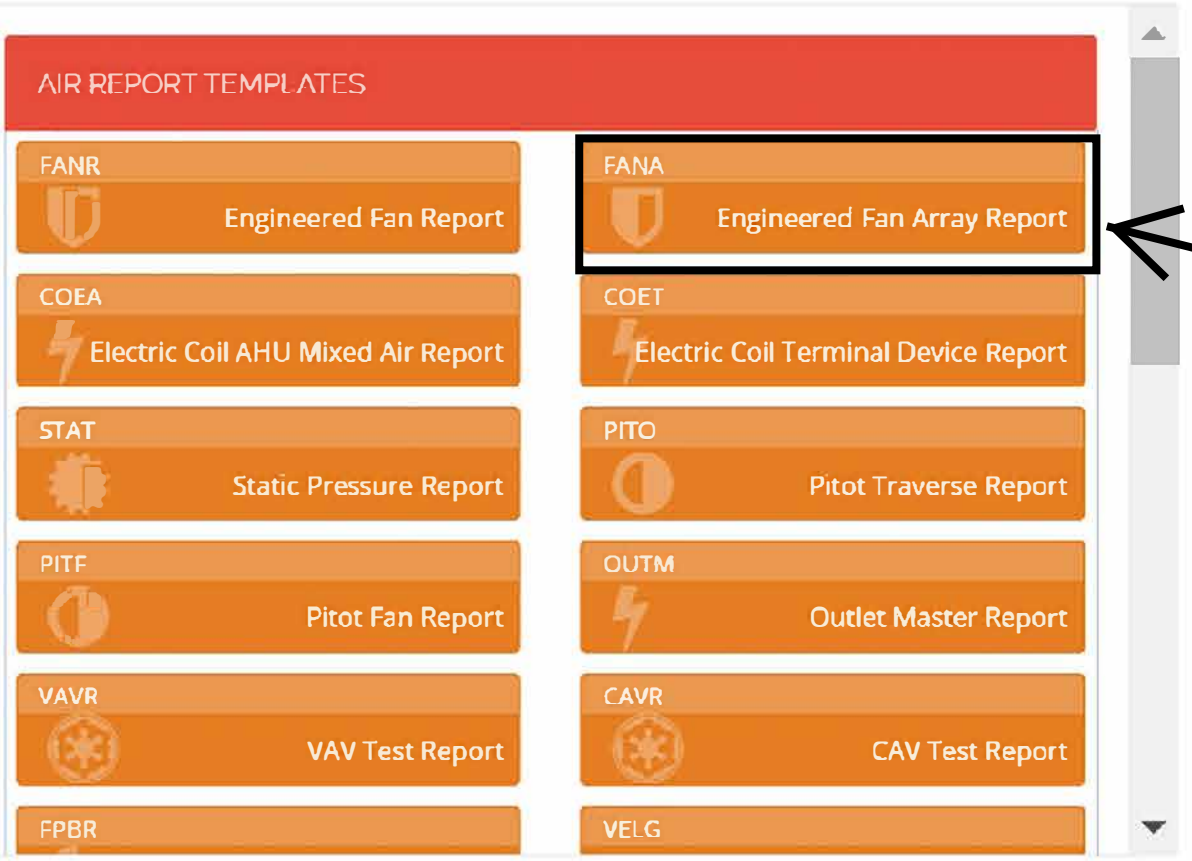
Audit Master PRO



When a report is finished it will show the "Status" as complete.

Audit Master PRO

Select the type of report

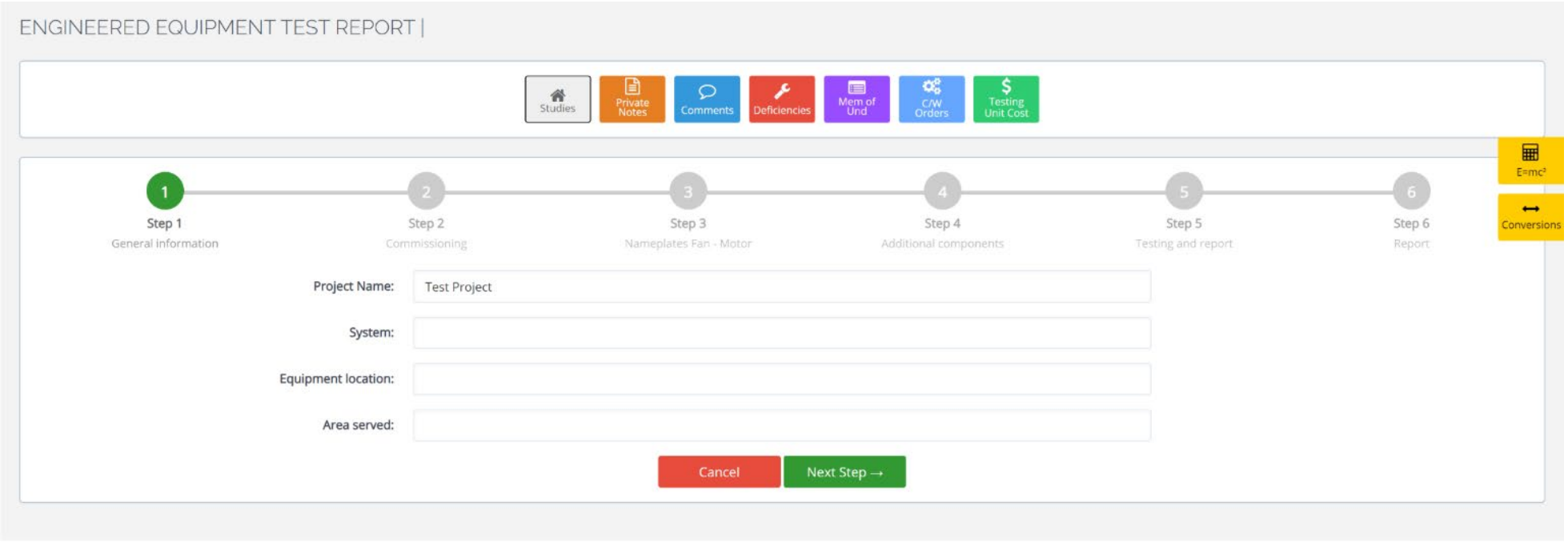


Click "Engineered Fan Array Report"

For Additional Report Sheets Scroll Down

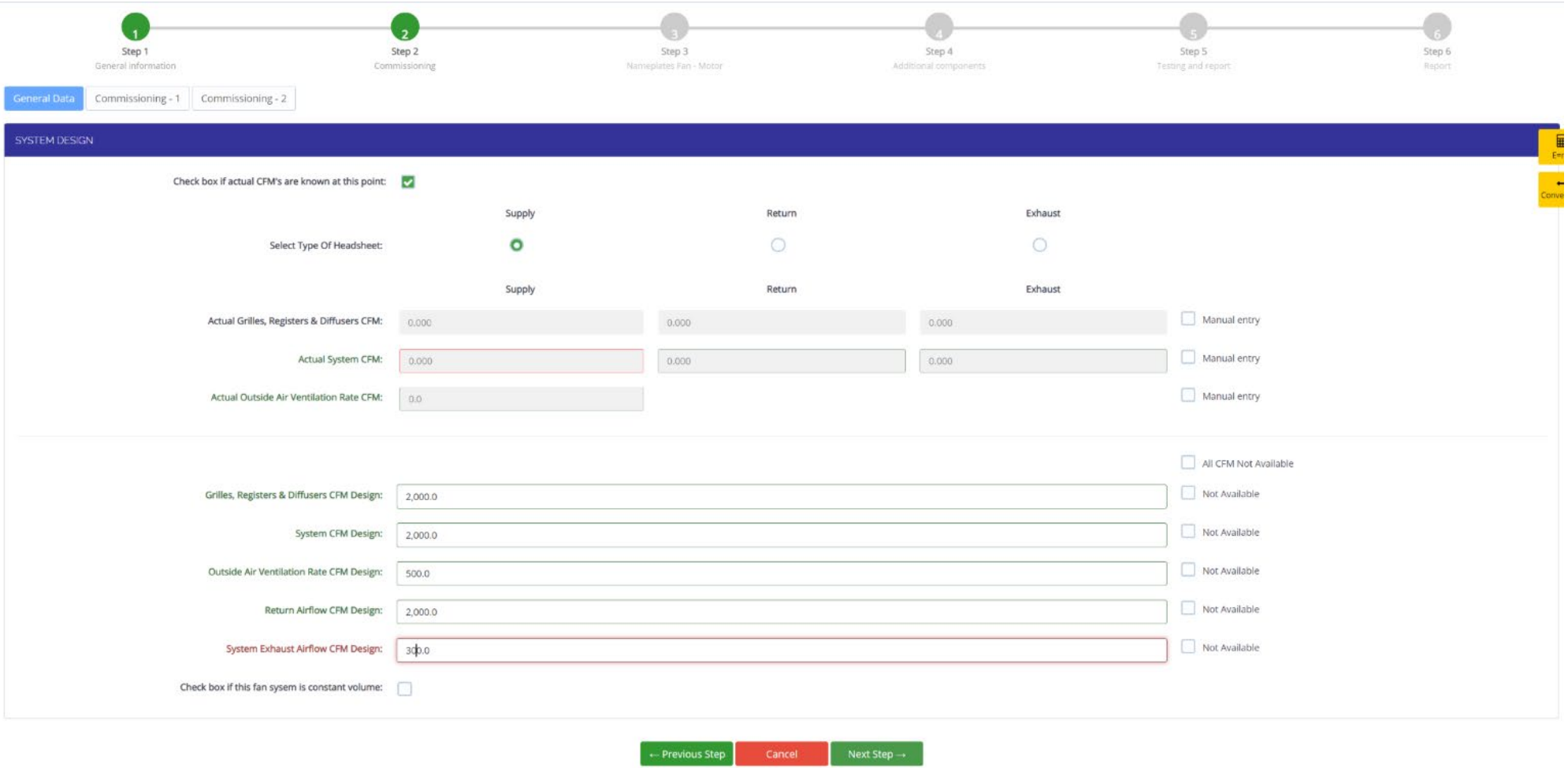
Close

Audit Master PRO



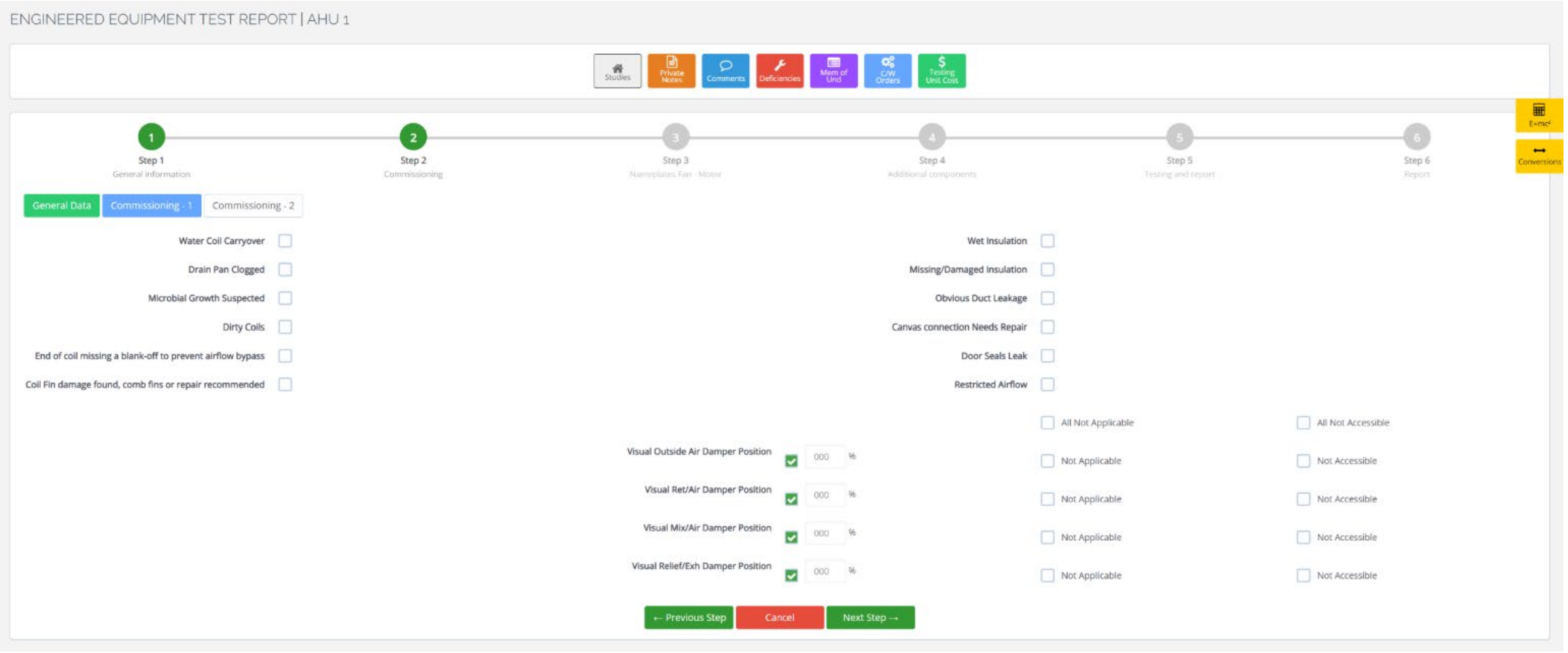
Enter System Information

Audit Master PRO



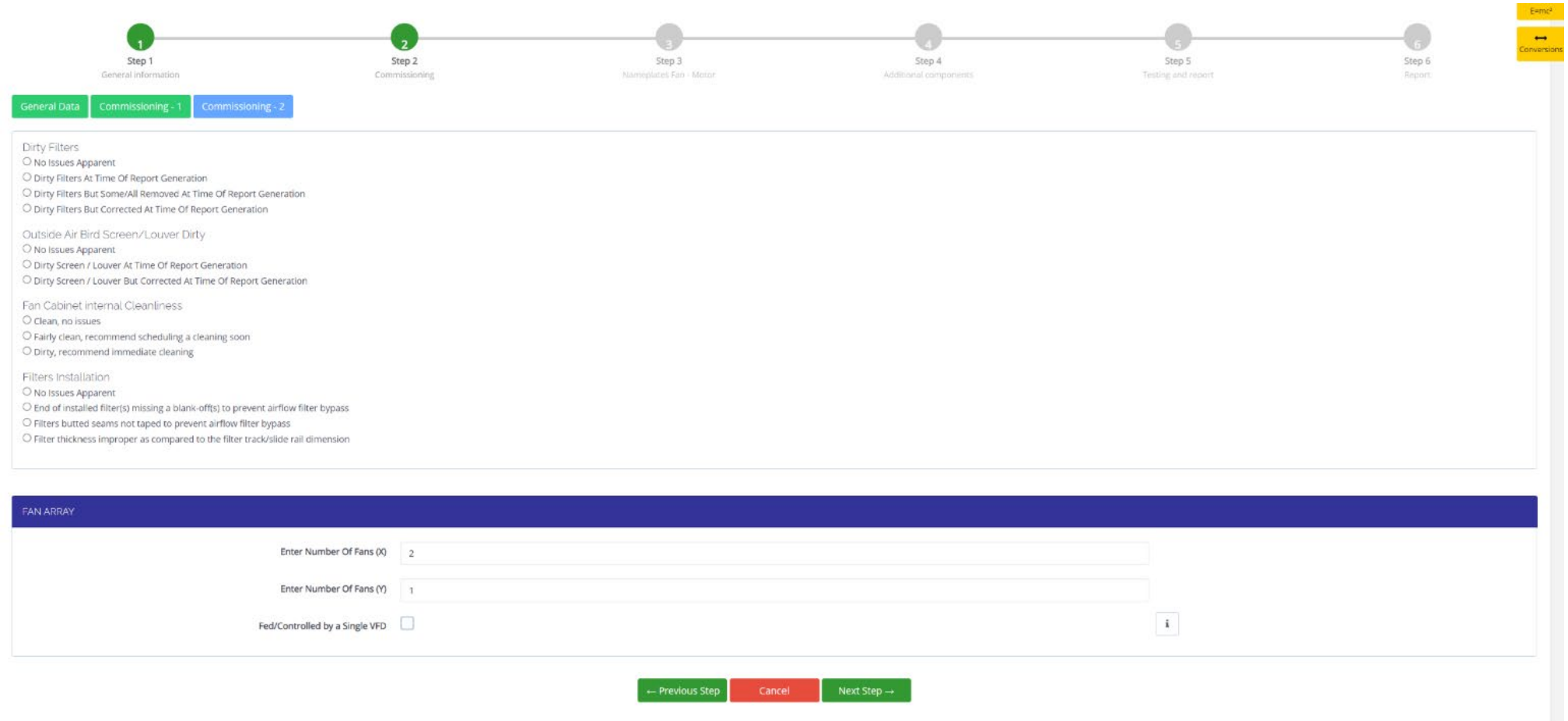
Enter Design Information

Audit Master PRO



Enter Commissioning-1 Information

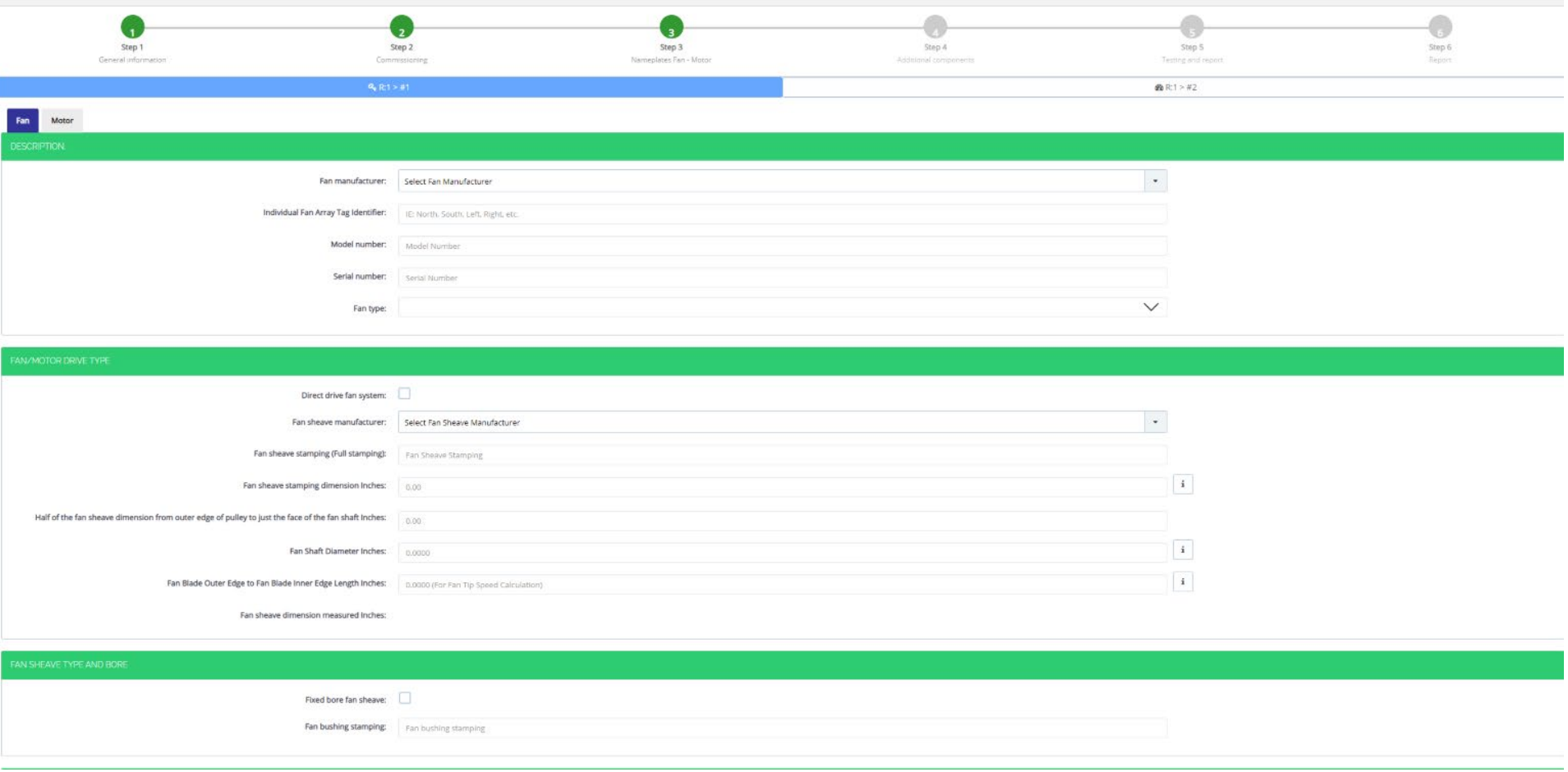
Audit Master PRO



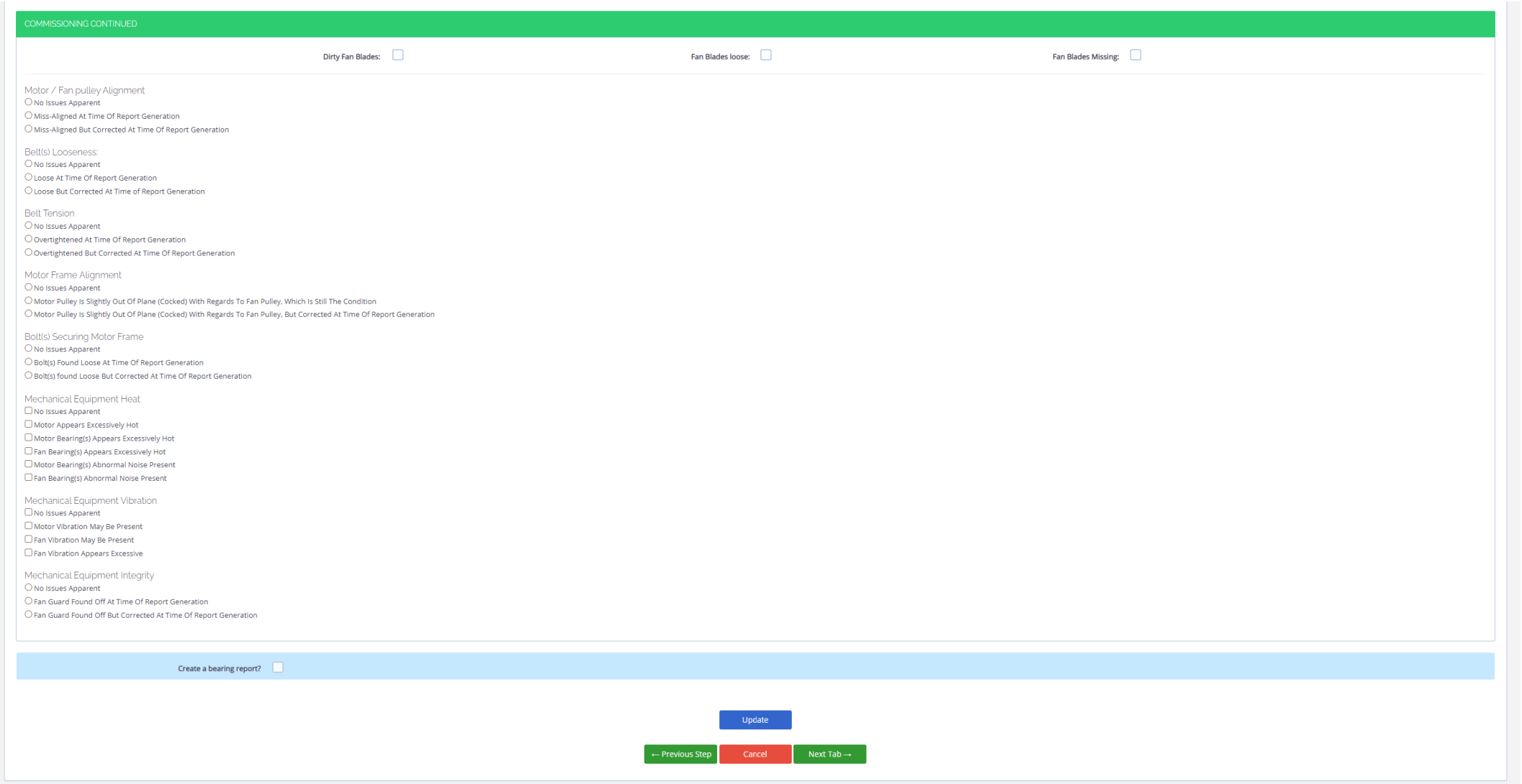
Enter Commissioning-2 Information

Audit Master PRO

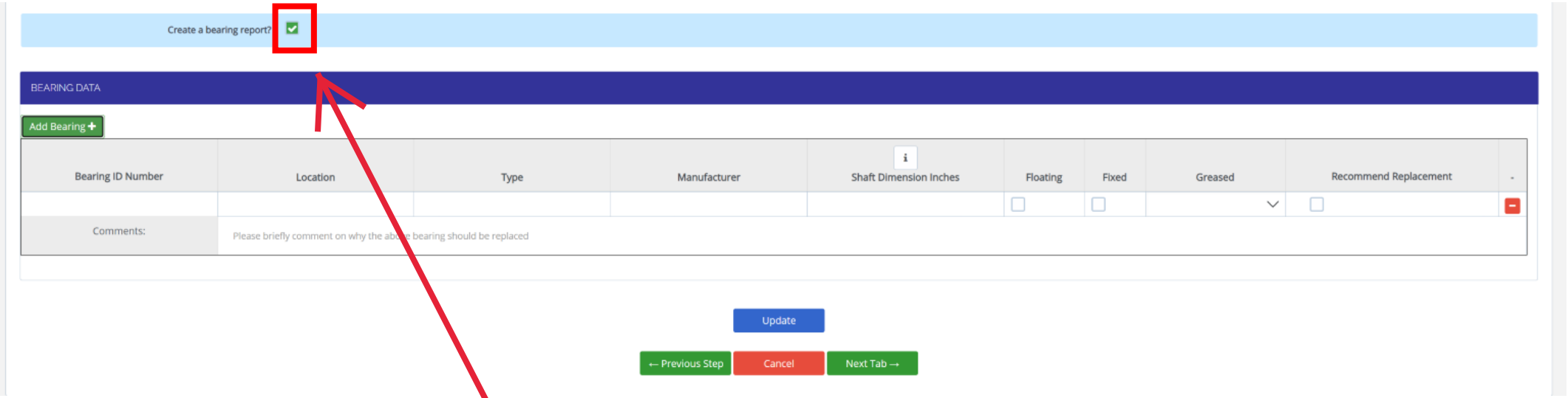
Enter Fan Data



Audit Master PRO

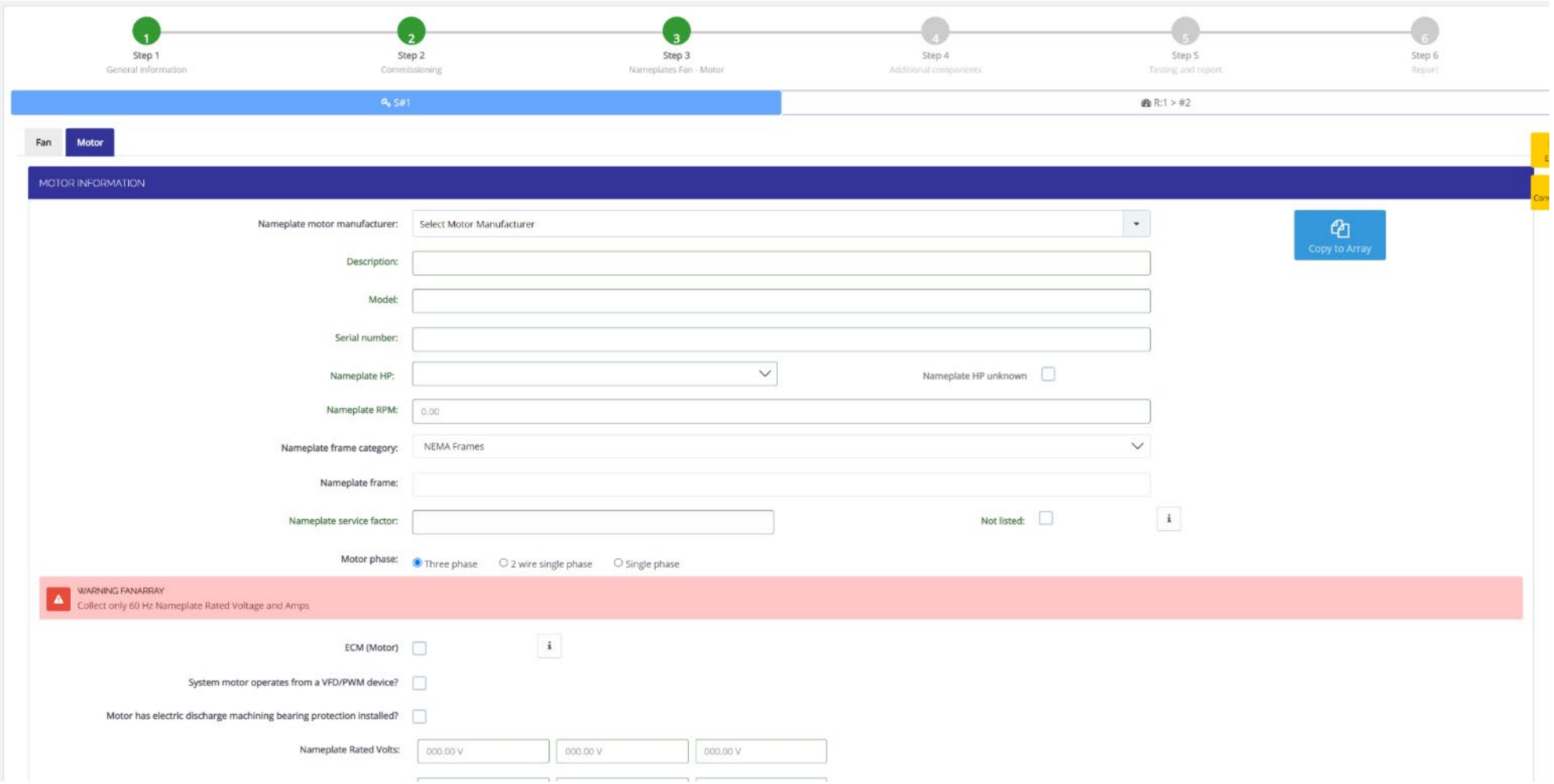


Enter Fan Commissioning Data

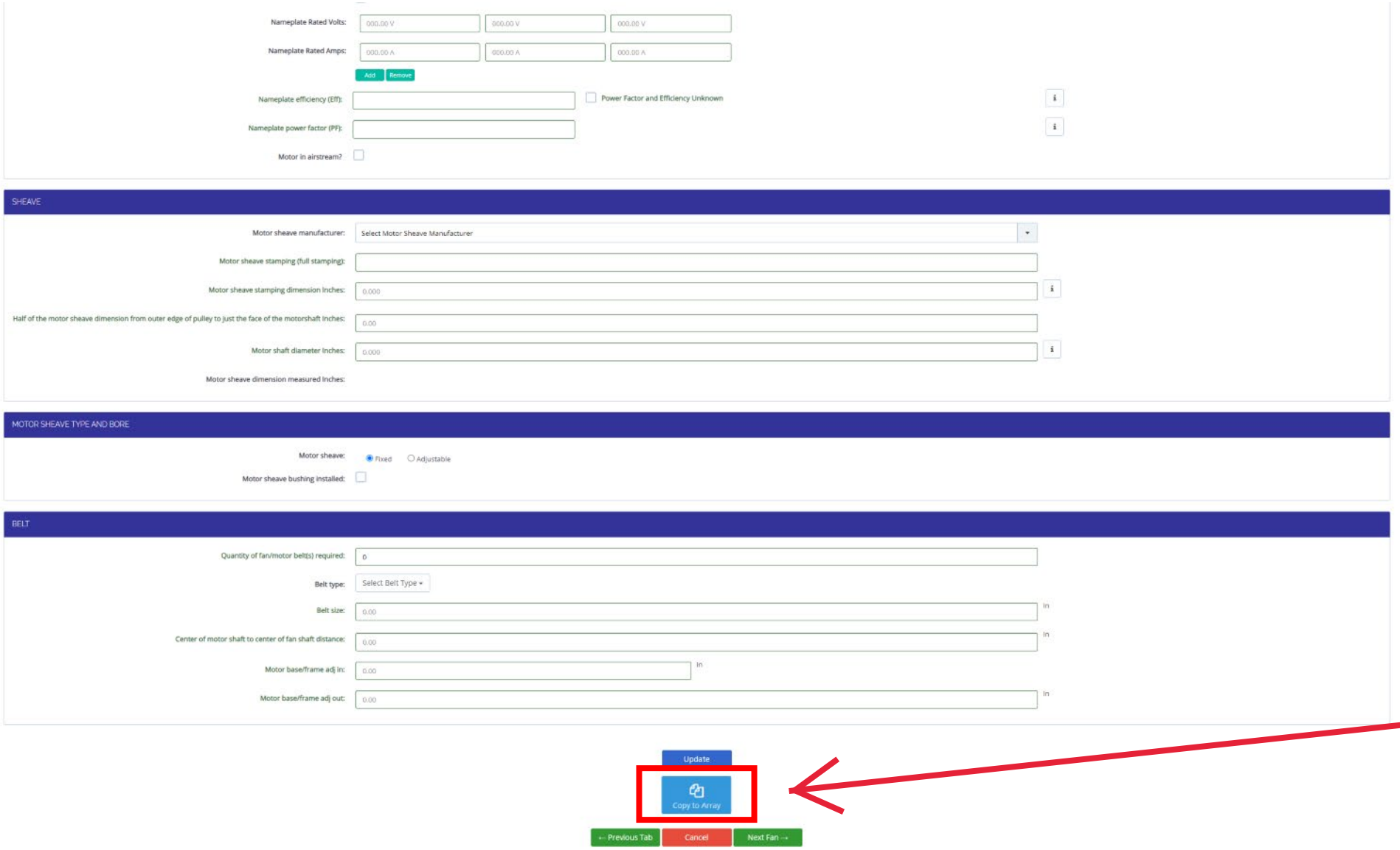


If the fan has bearings, you can create a bearing report and add data.

Audit Master PRO

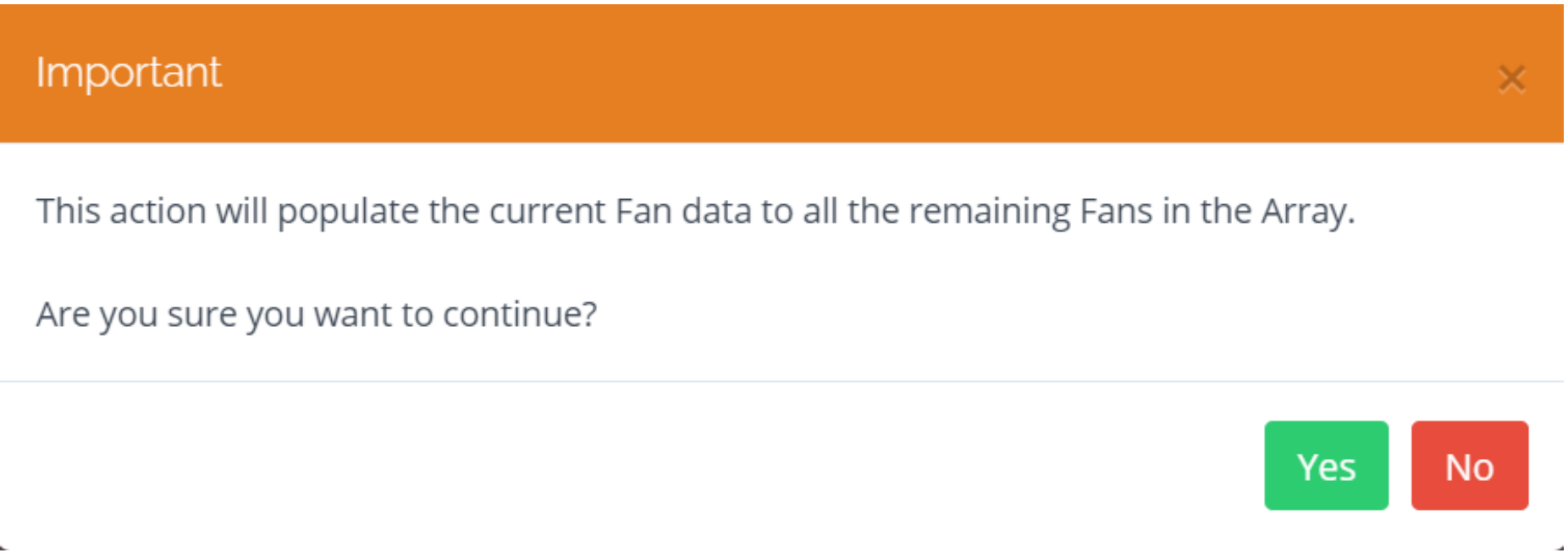


Enter Motor Nameplate Data

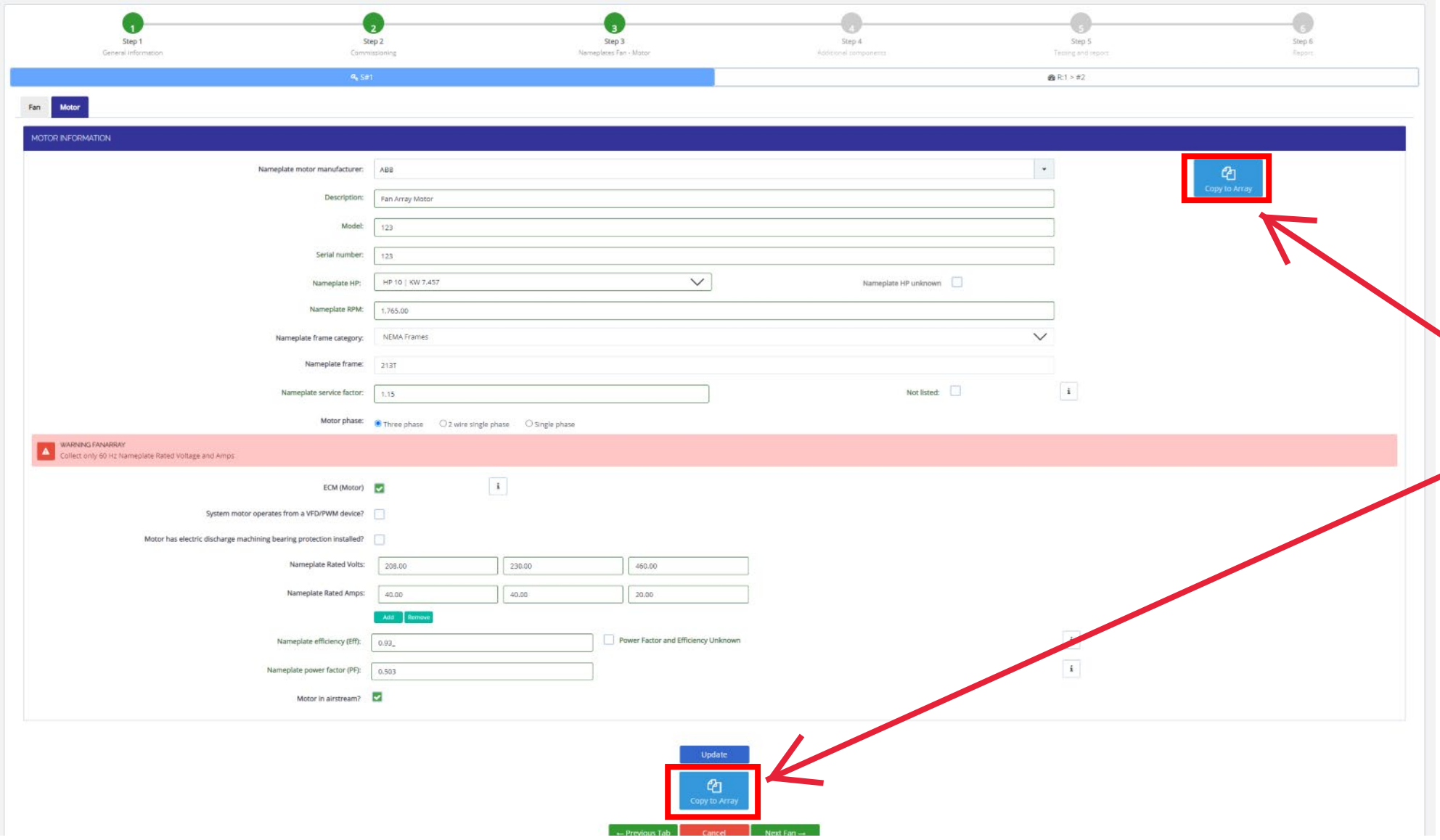


Enter Motor Nameplate Data Continued

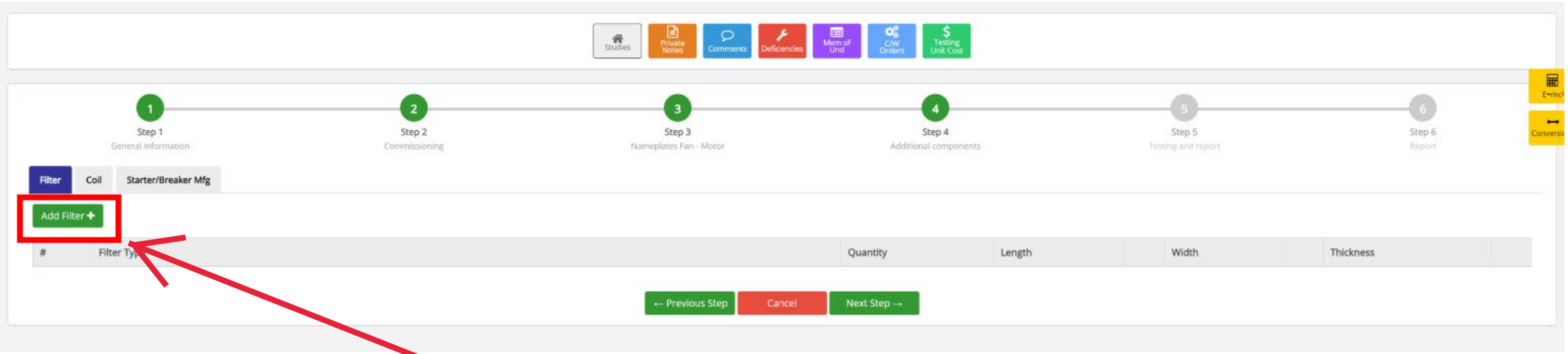
If the fan array has multiple identical motors you can copy the information to the remaining motors by clicking the "Copy to Array" icon.



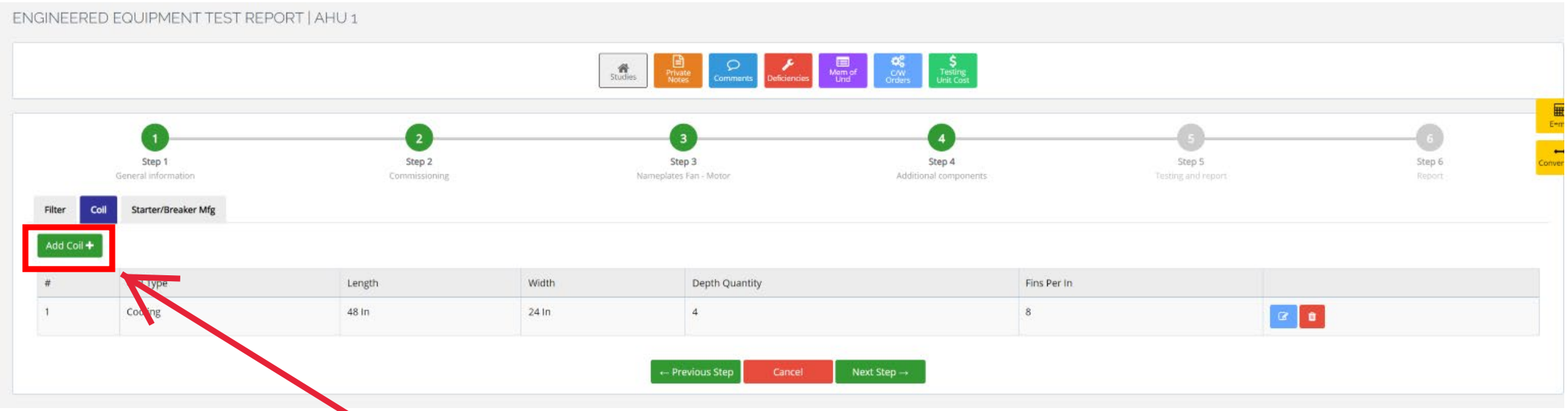
Confirm that you want to copy all information to the remaining motor sheets.



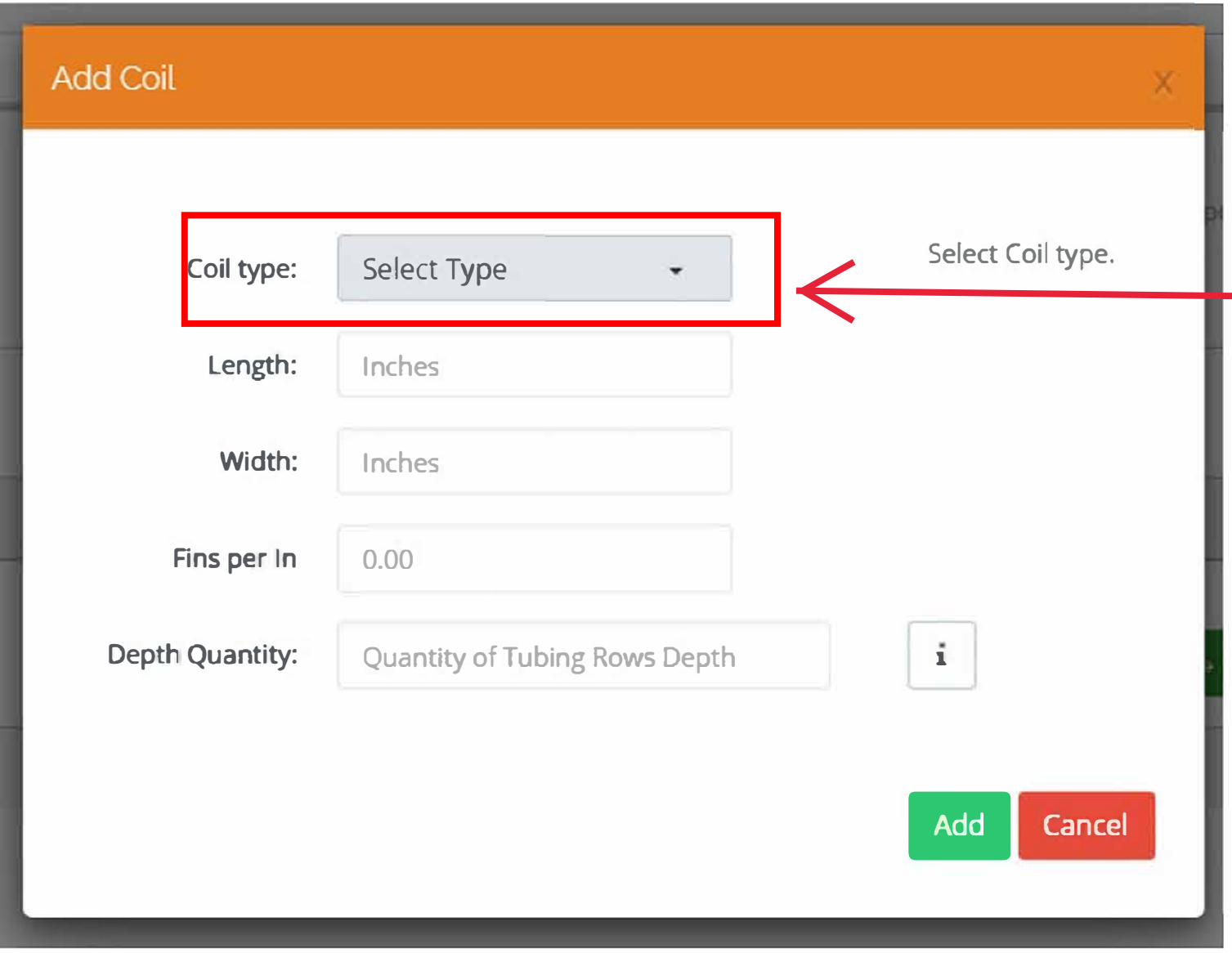
If the Fan Array has multiple identical motors, you can copy the information to the remaining motors with the "Copy to Array" icon.



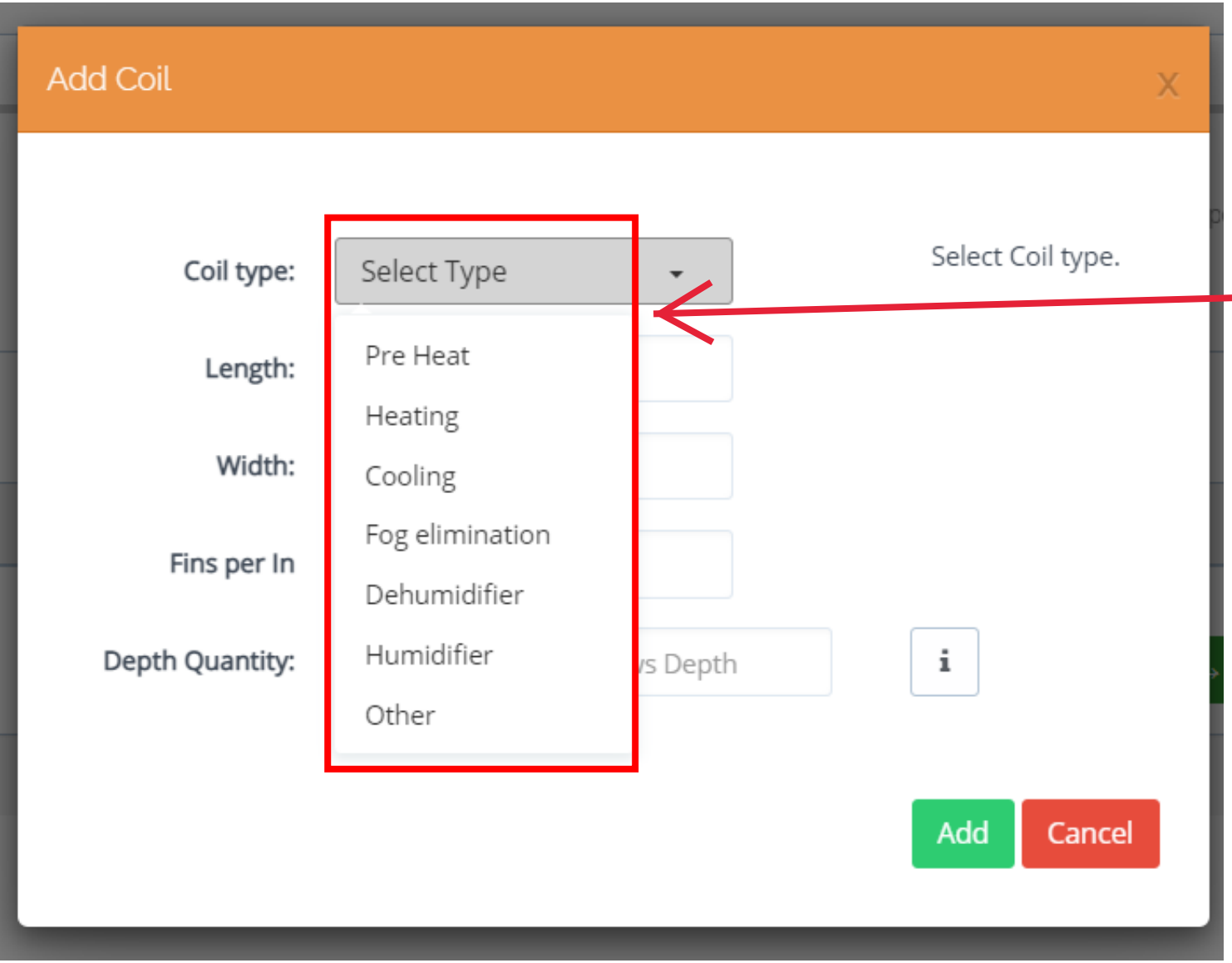
Click to add Filter information



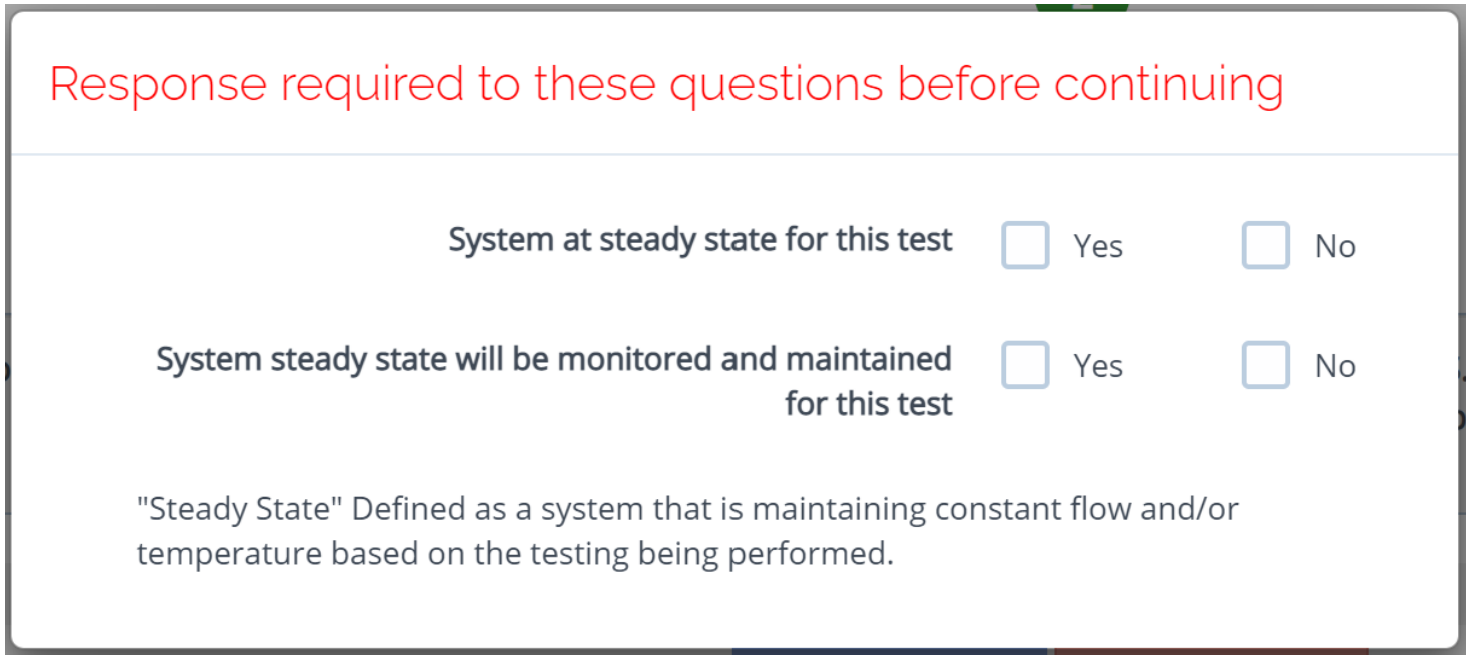
Click to add Coil information



Select "Coil Type" before completing the remaining coil information.

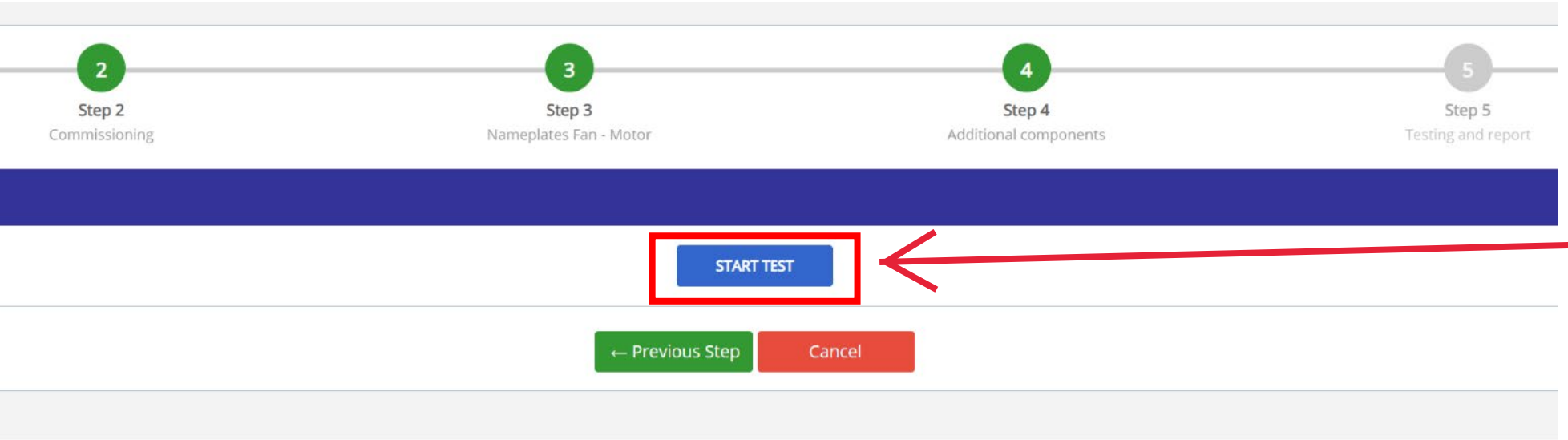


This is the drop down for selecting "Coil Type."

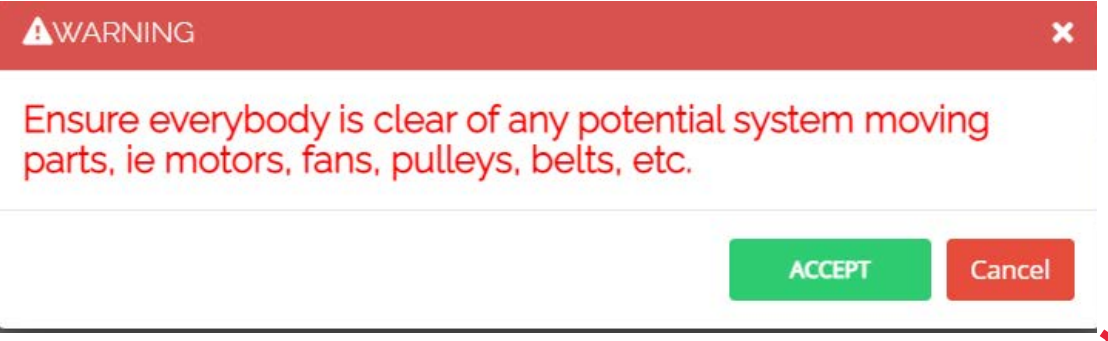


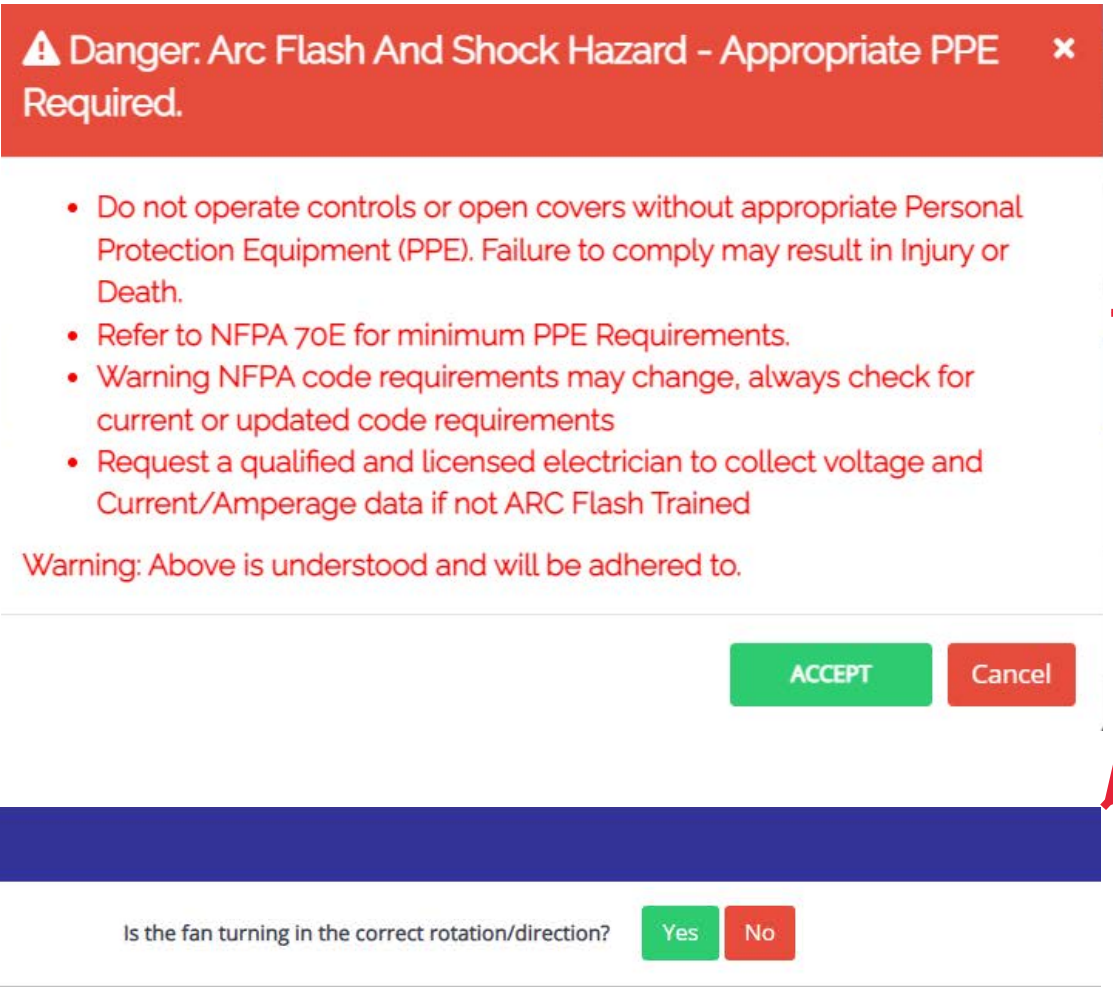
Throughout the AMP software you will be required to verify that the system being tested is at steady state.

Steady state is critical to testing as it ensures that any readings or calibrations are repeatable.



Click "Start Test"

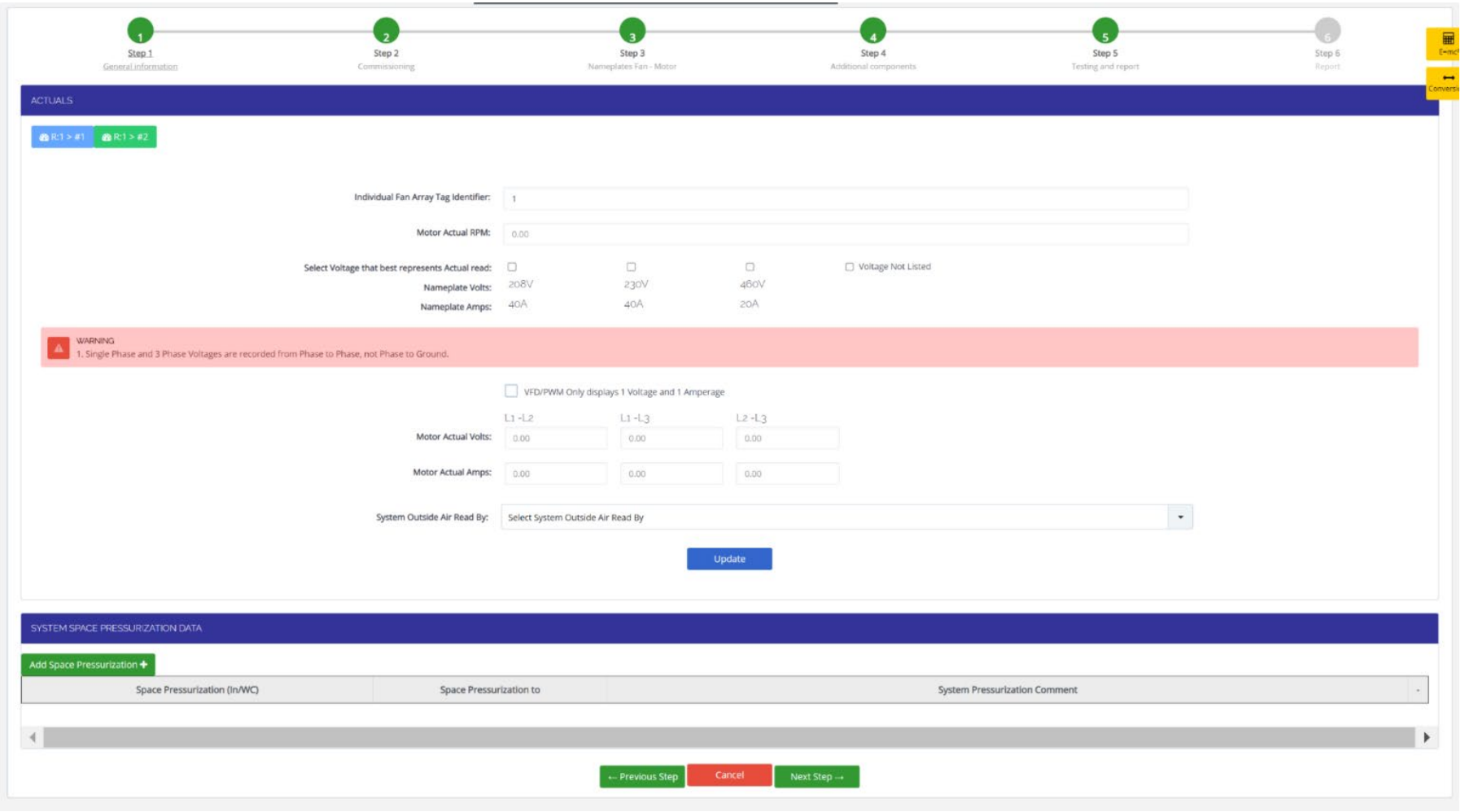




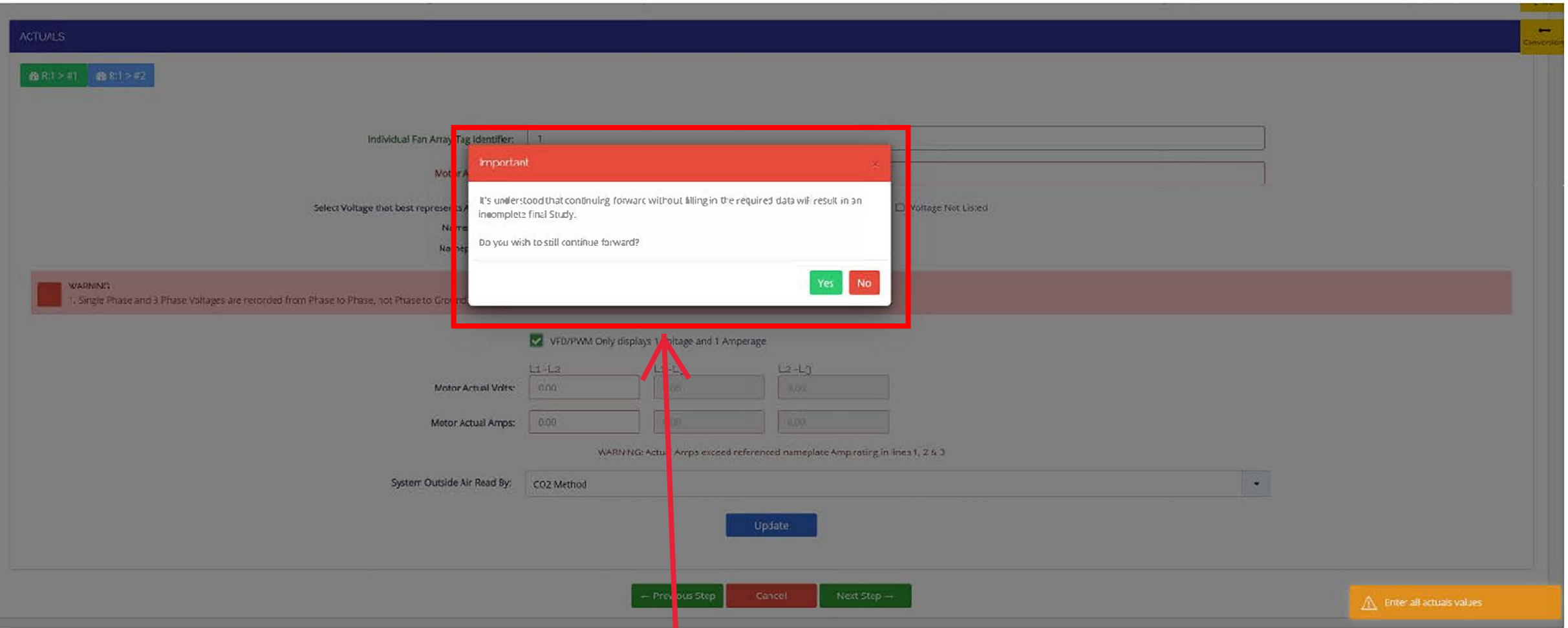
These are three of the most common safety warnings that will appear throughout AMPs software.

You will be required to acknowledge each warning individually in order to proceed.

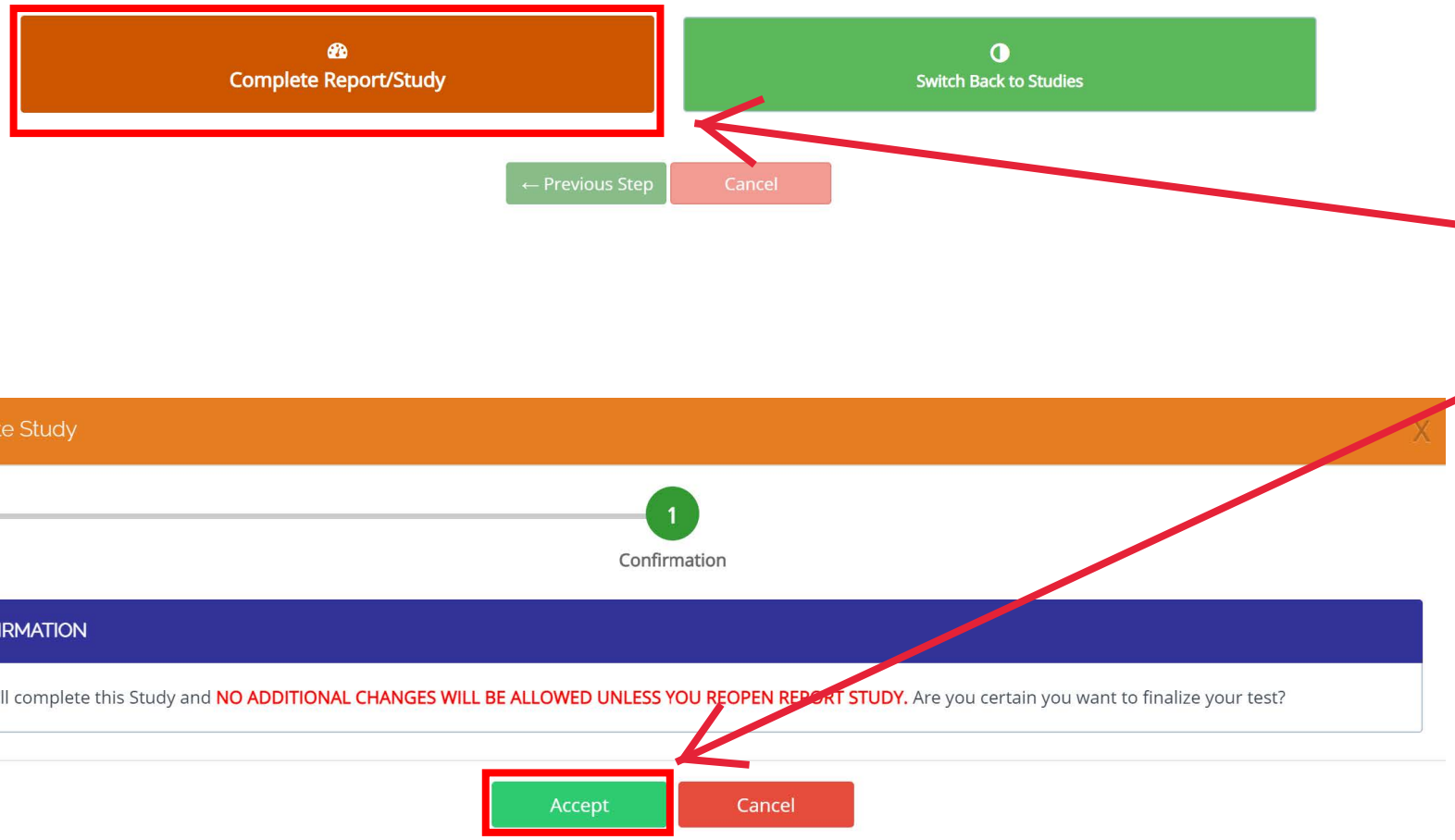
Audit Master PRO™



Enter Actual Motor Data



Warnings will auto-populate if critical information is left blank.



After all data has been entered, the last steps will be to:

Complete Report/Study

Accept Confirmation

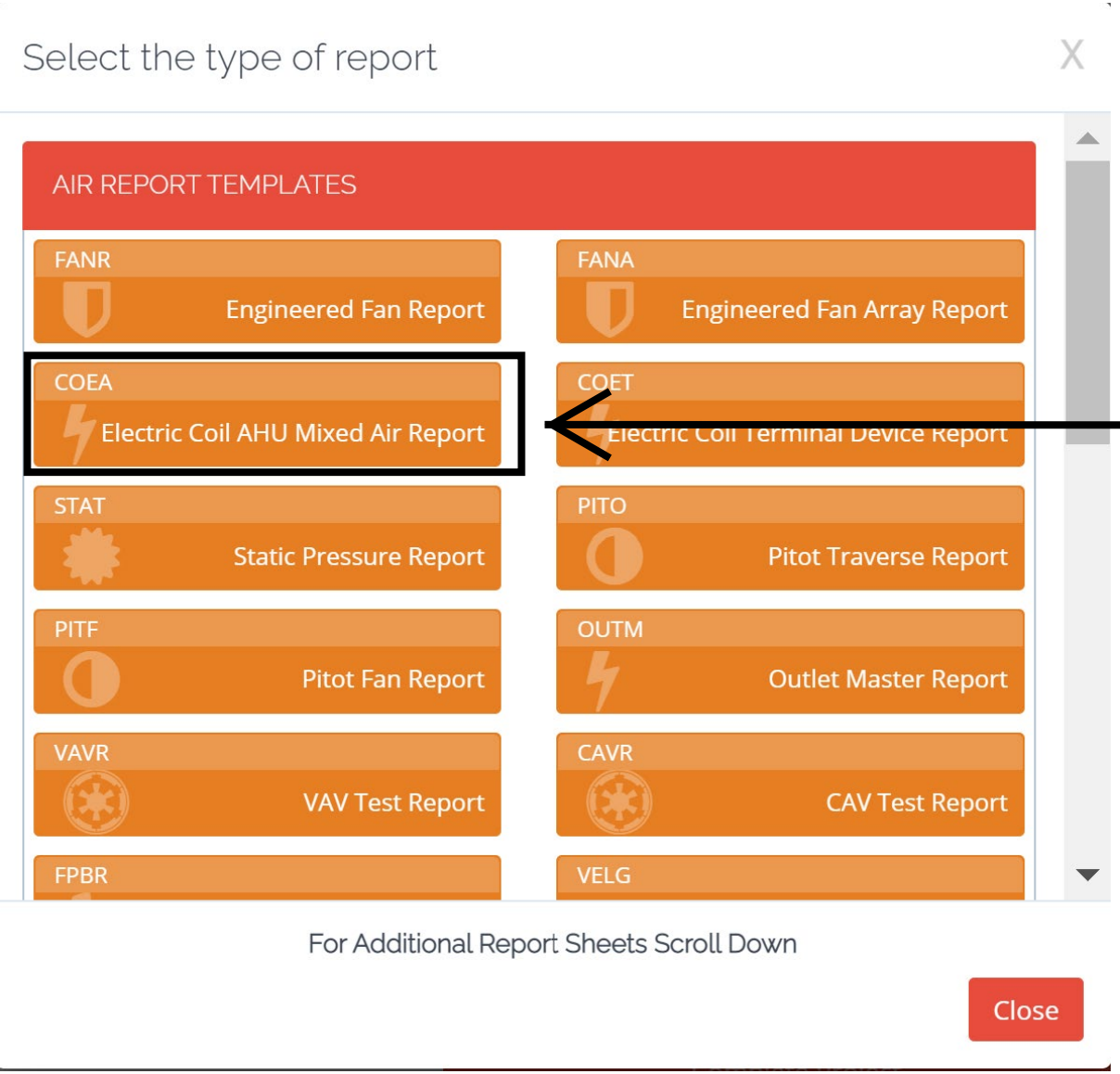
Audit Master Pro Training

Electric Coil AHU Mixed Air Report

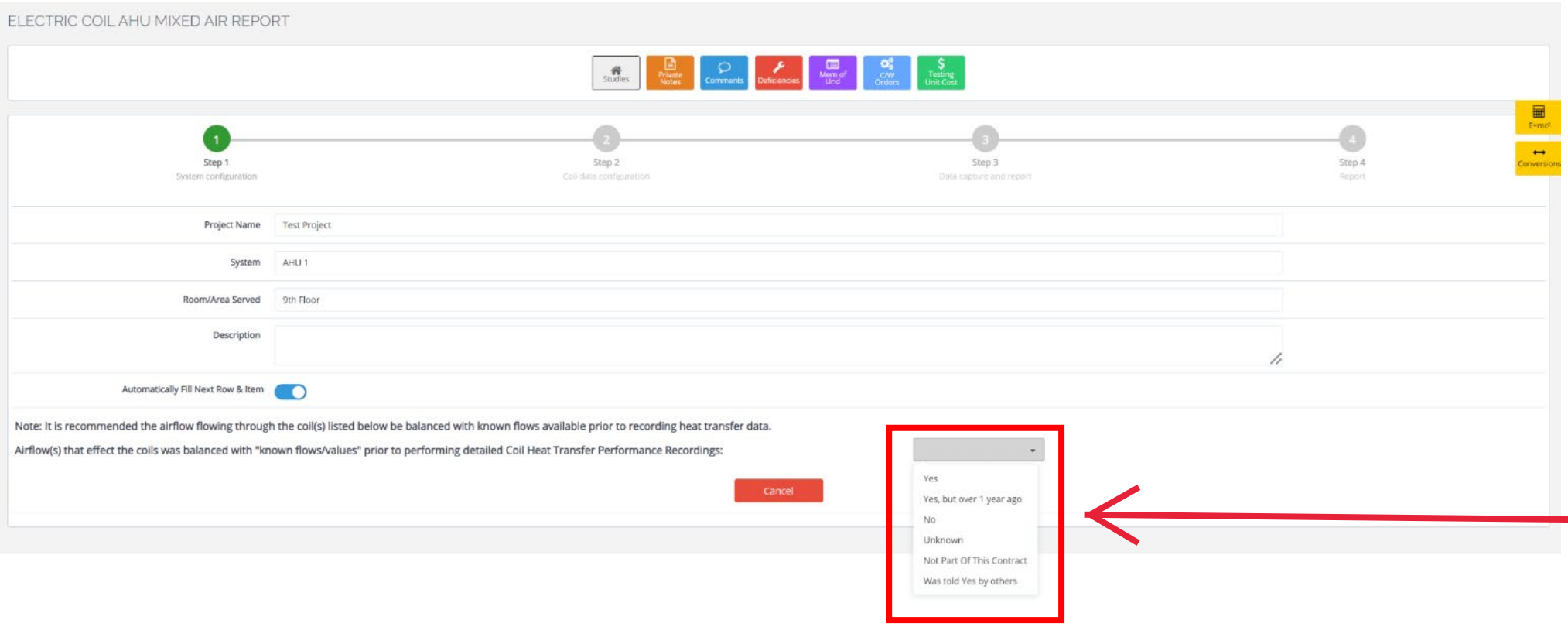
This tutorial will act as a guide to create and input all data required for the selected air study.

Go to Index

Audit Master PRO

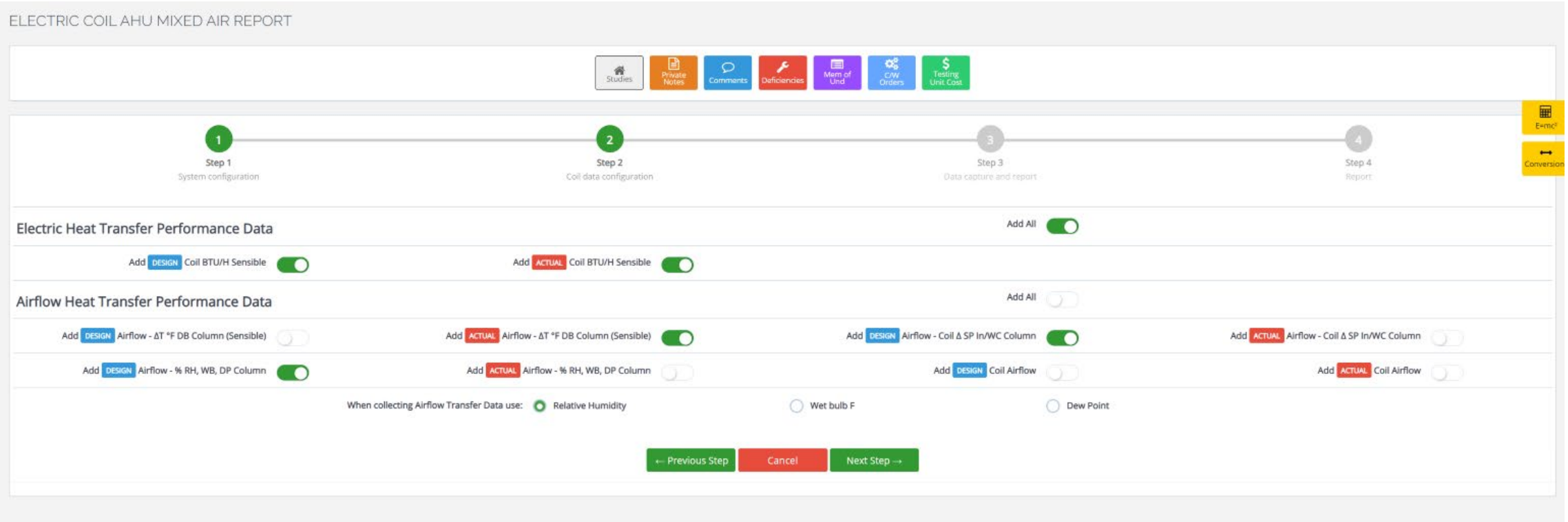


Click "Electric Coil AHU Mixed Air Report"

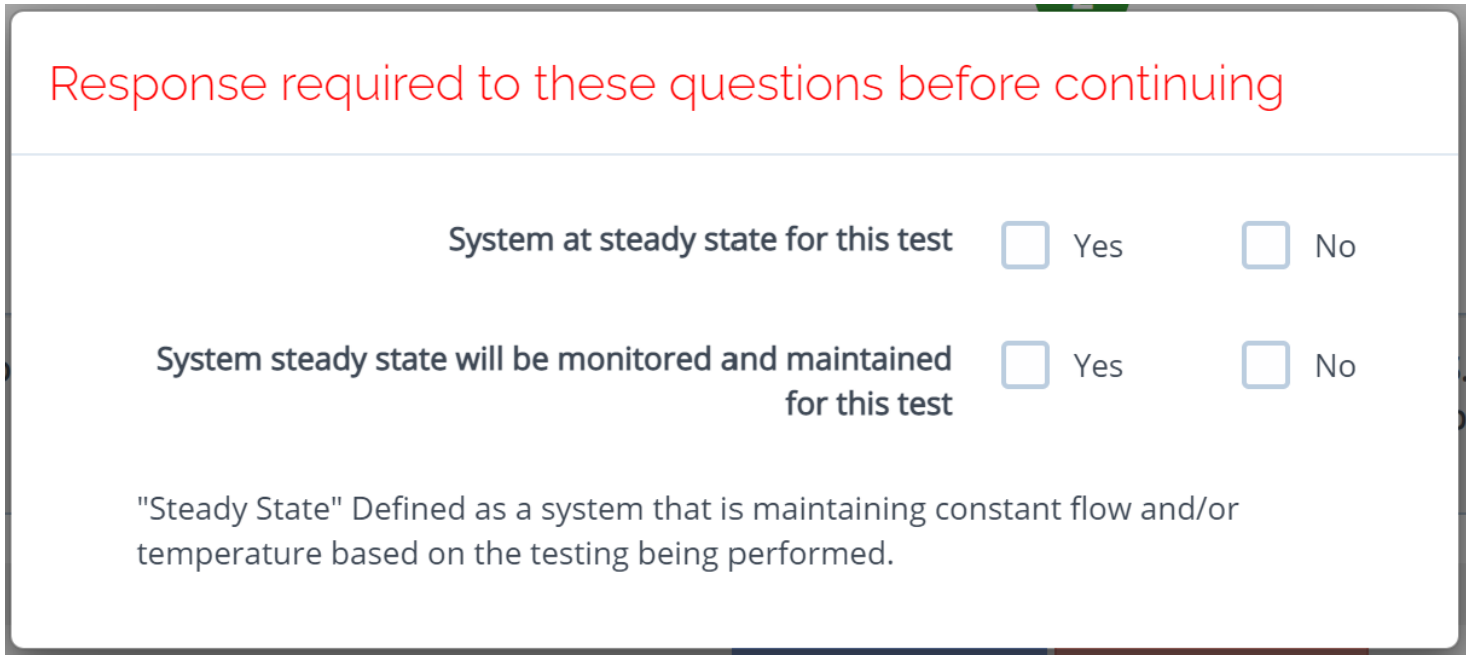


Enter System Information

Select which answer best reflects the airflow balancing statement shown.



Select Coil Configuration

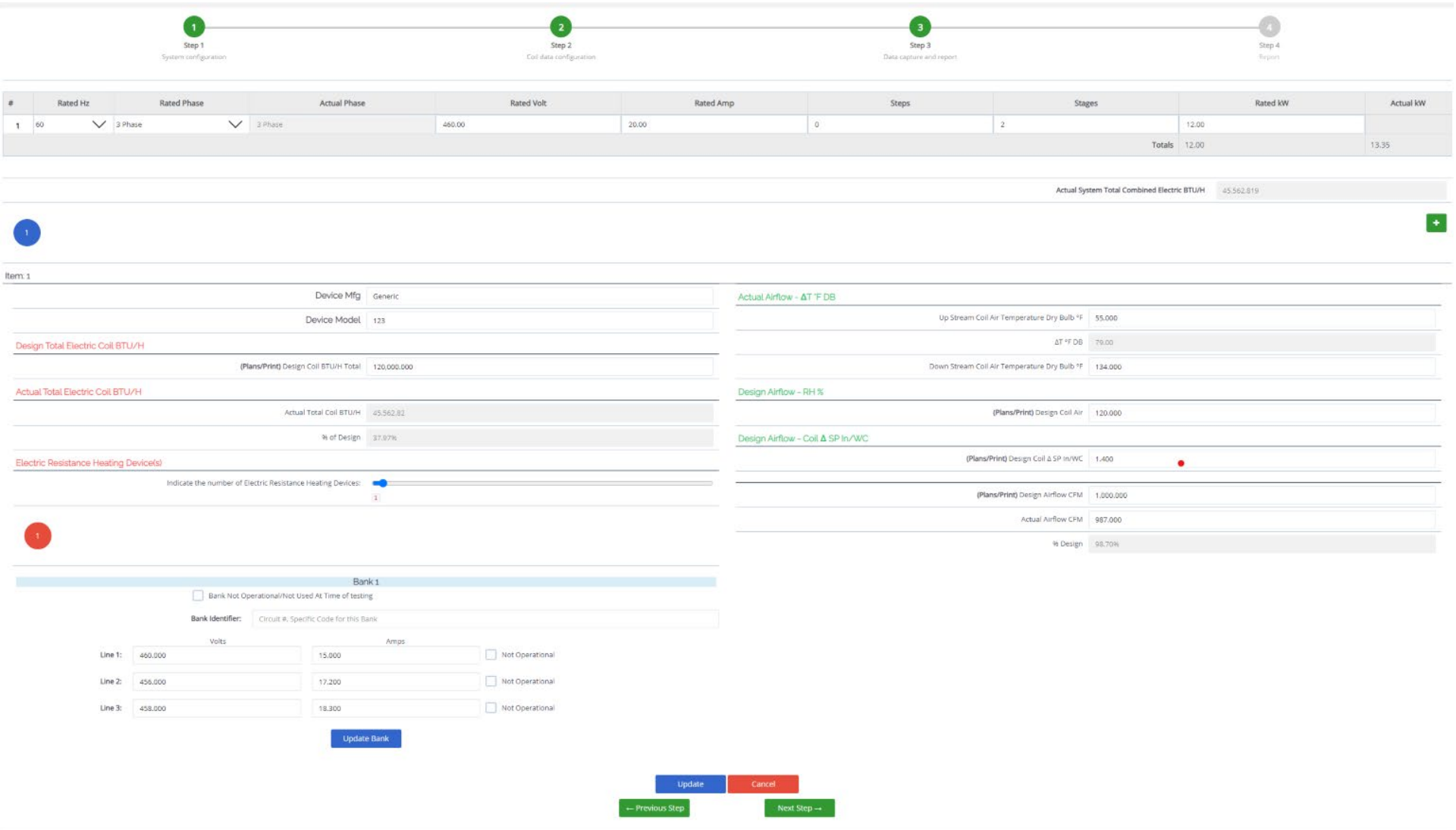


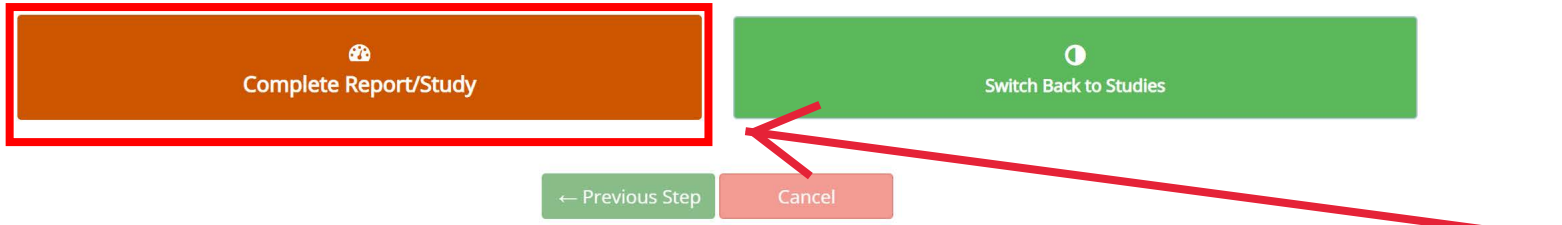
Throughout the AMP software you will be required to verify that the system being tested is at steady state.

Steady state is critical to testing as it ensures that any readings or calibrations are repeatable.

Audit Master PRO™

Enter Actual Coil Data

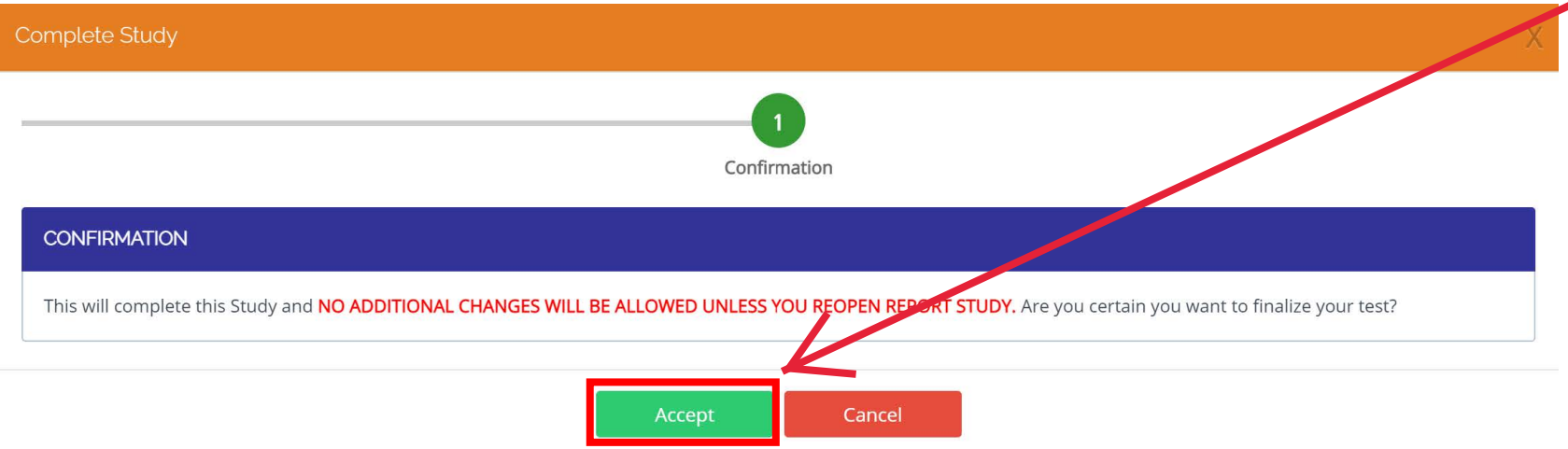




After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation



Audit Master Pro Training

Electric Coil Terminal Device Report

This tutorial will act as a guide to create and input all data required for the selected air study.

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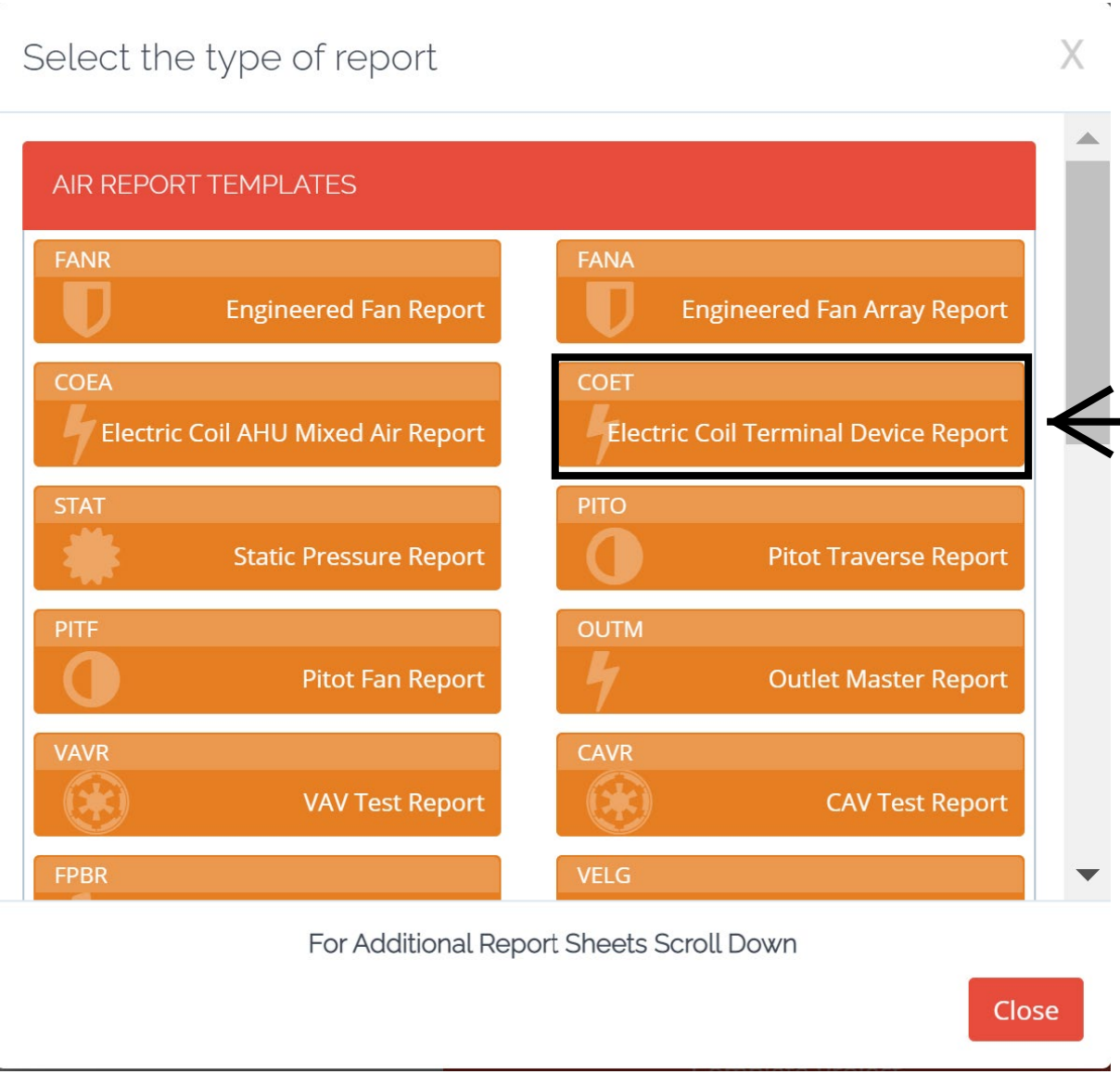
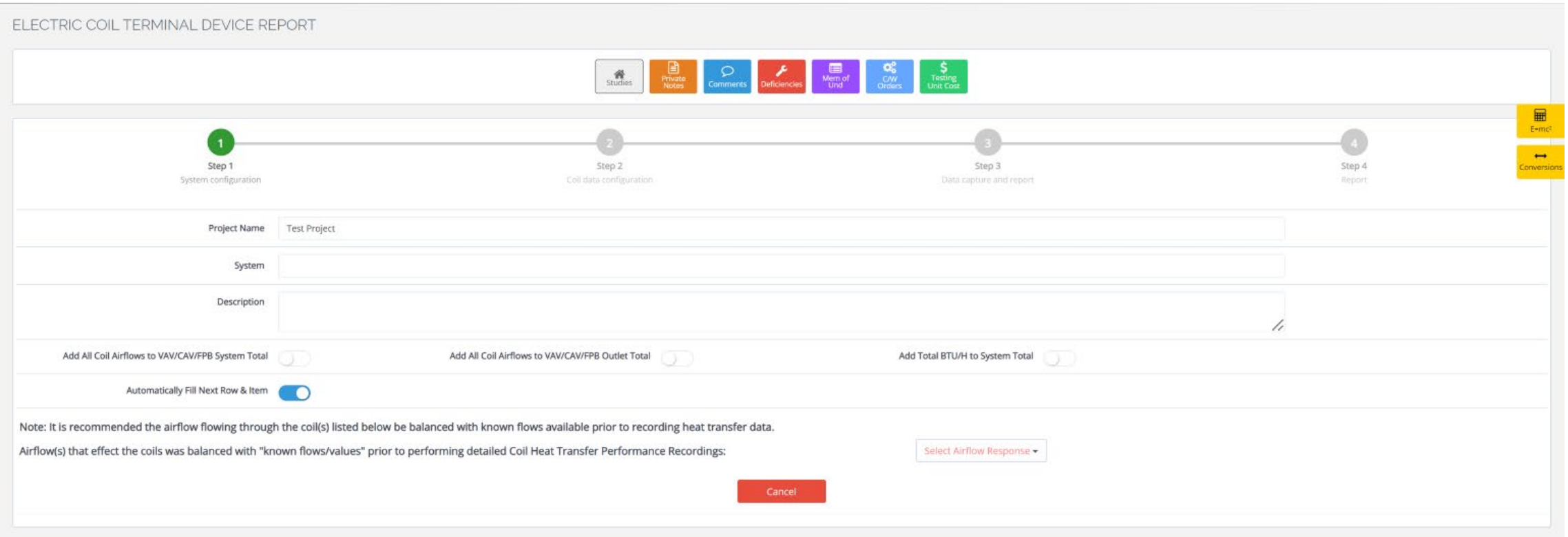
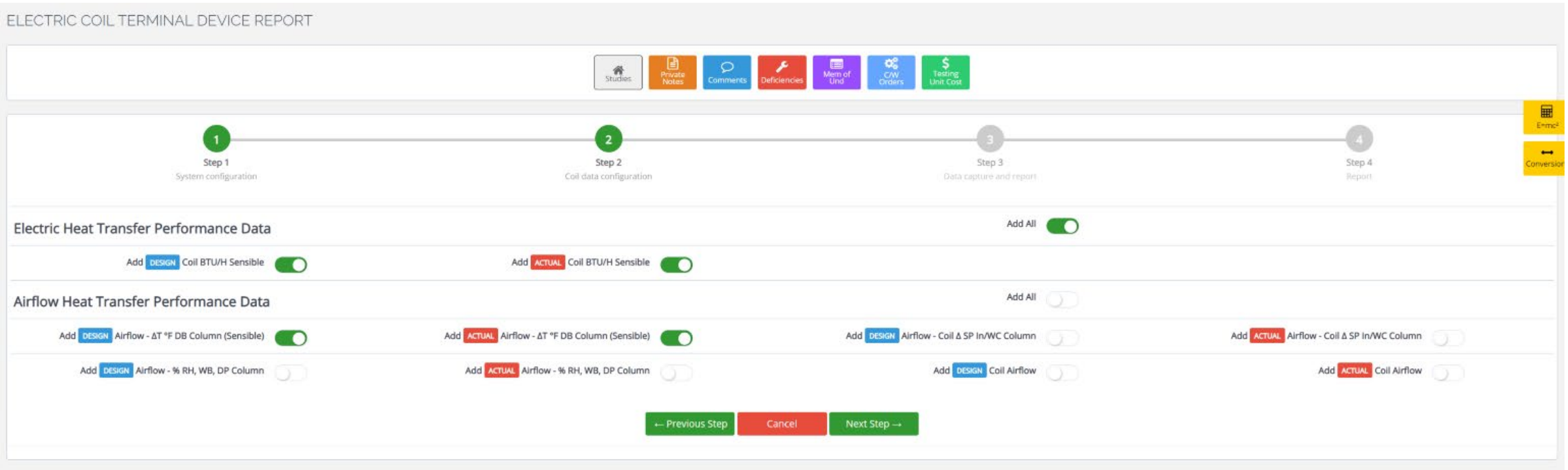
Audit Master PRO



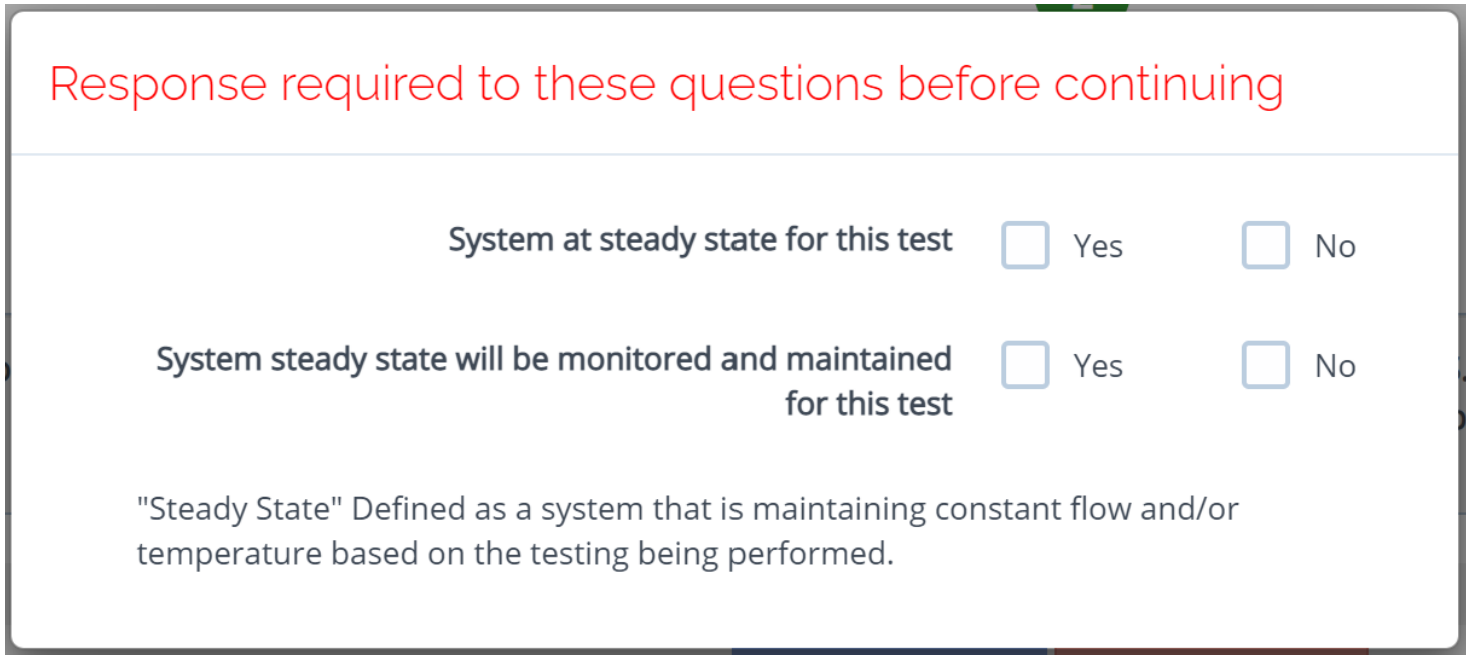
Click "Electric Coil Terminal Device Report"



Enter System Information



Enter Coil Configuration



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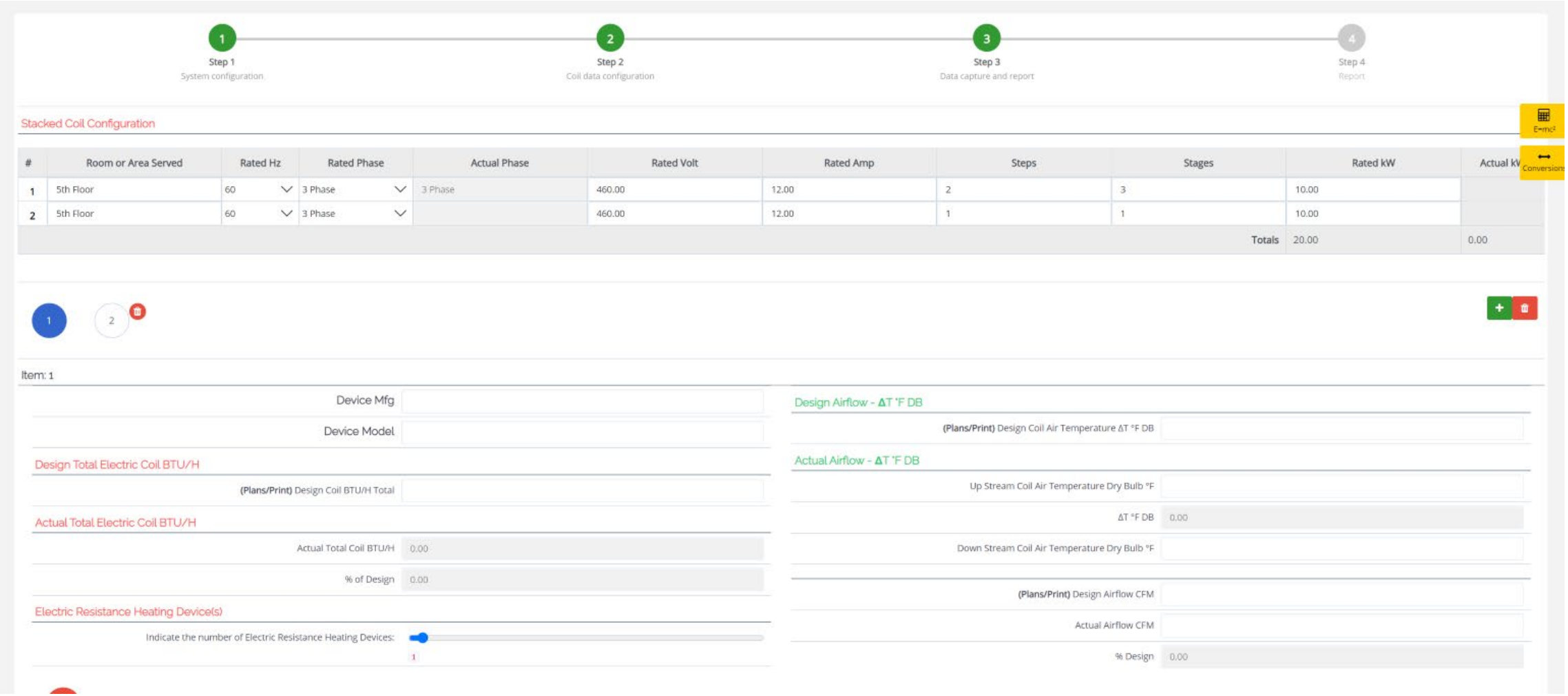
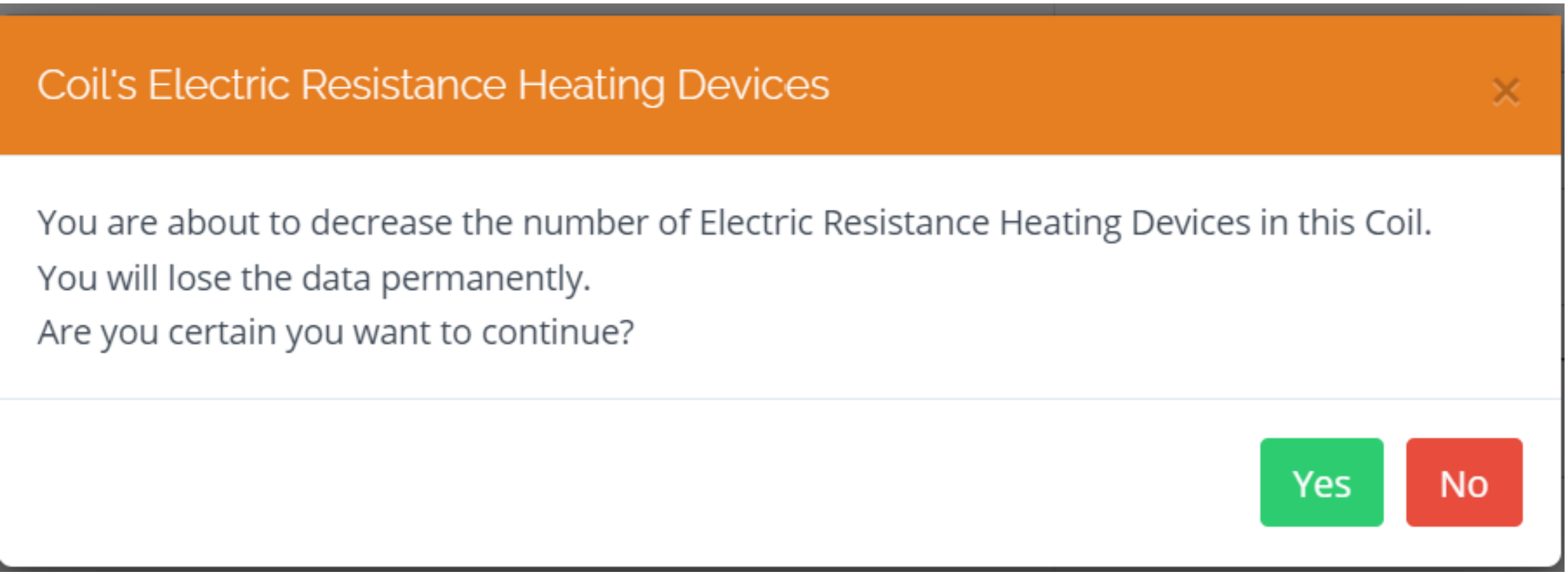
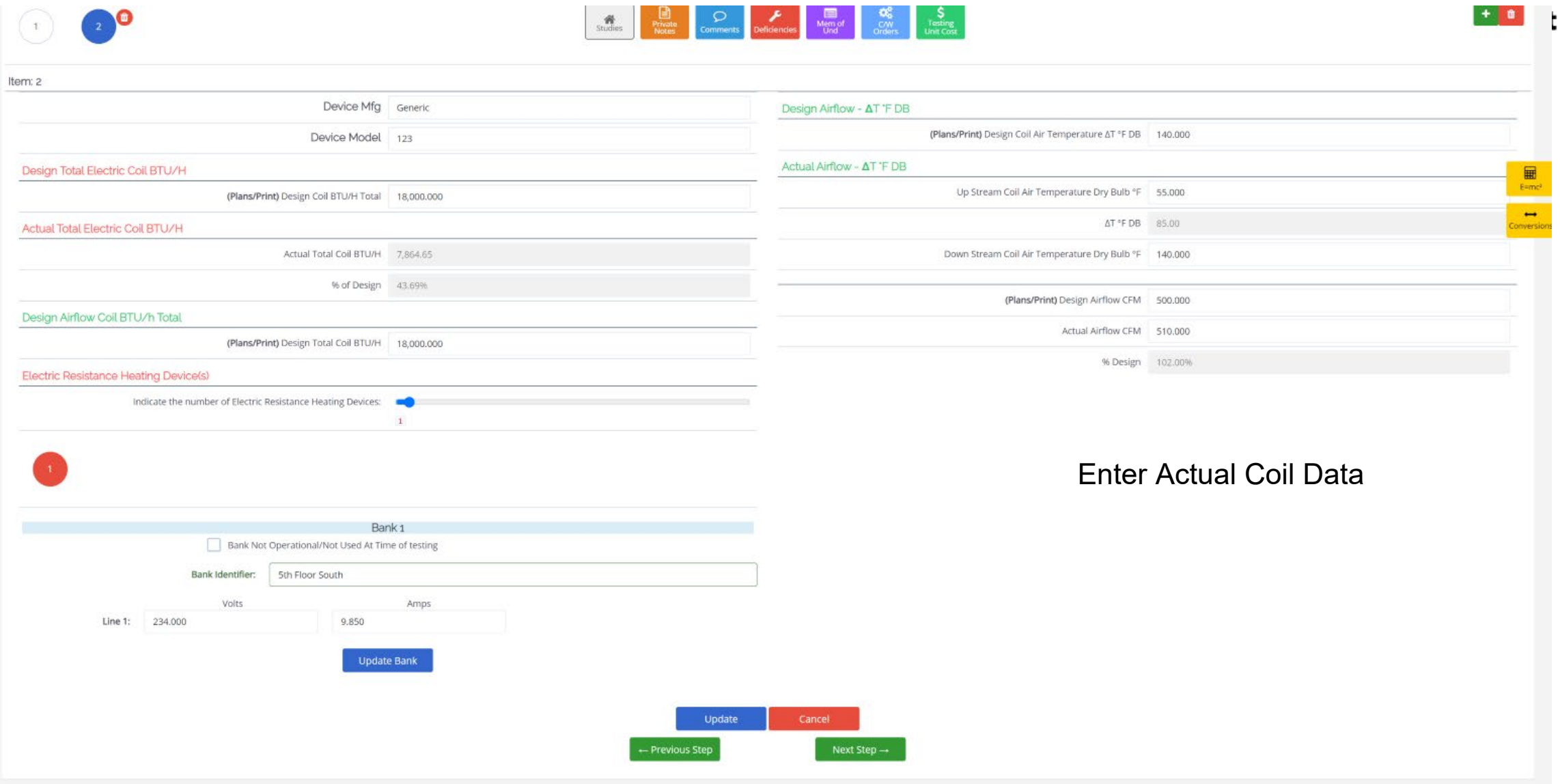


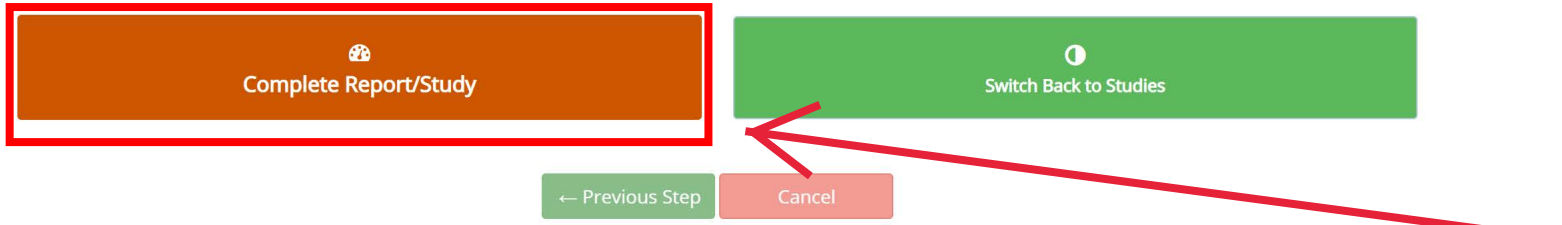
Enter Actual Coil Data



Confirm to continue



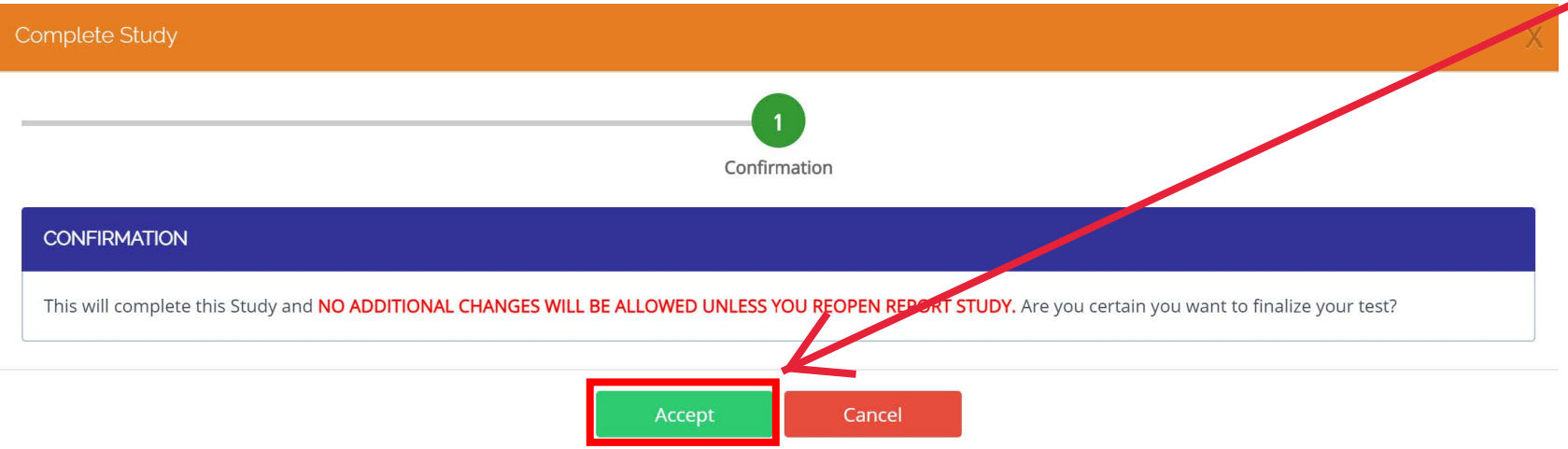
Enter Actual Coil Data



After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation



Audit Master Pro Training

Static Pressure Report

This tutorial will act as a guide to create and input all data required for the selected air study.

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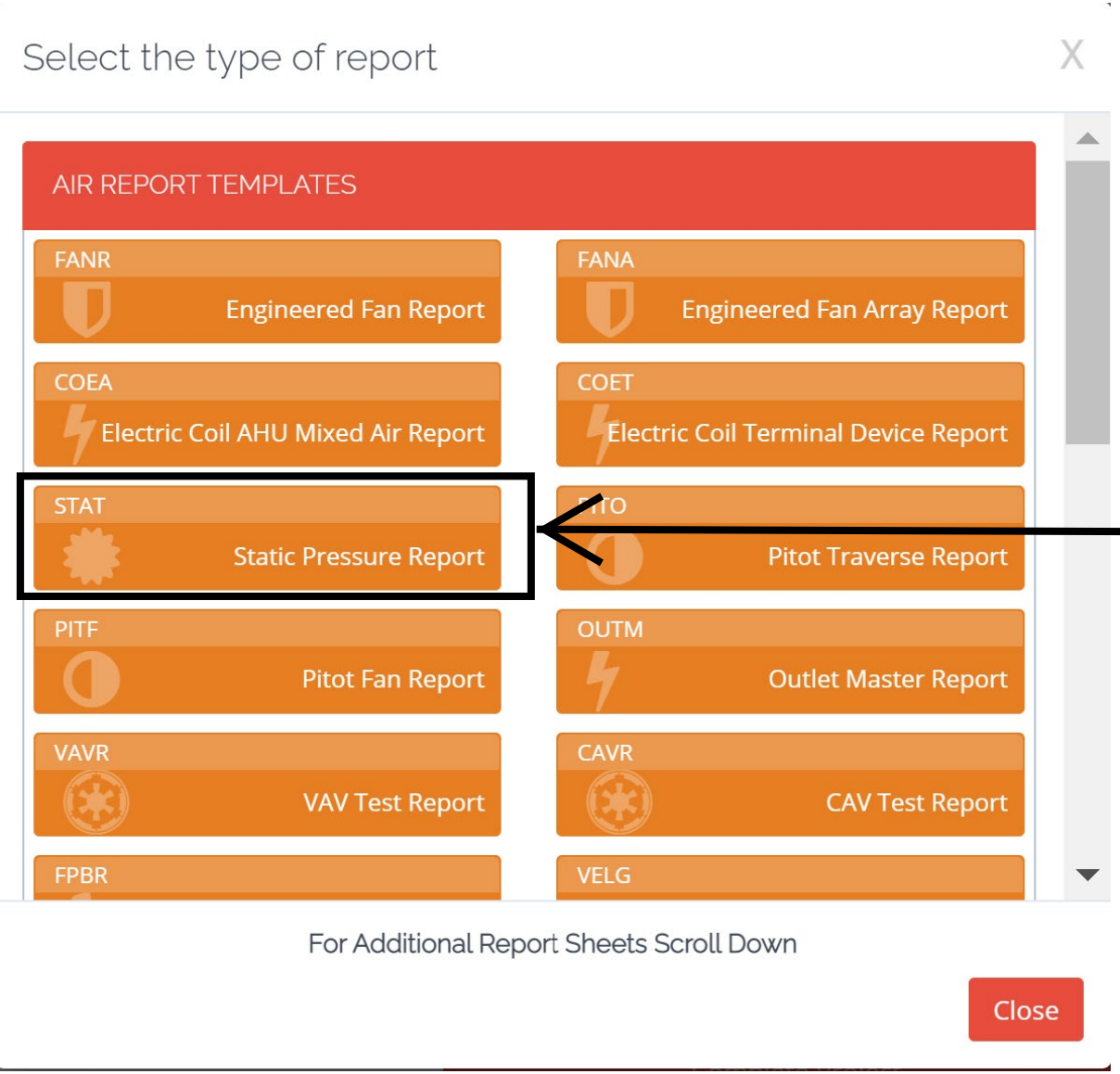
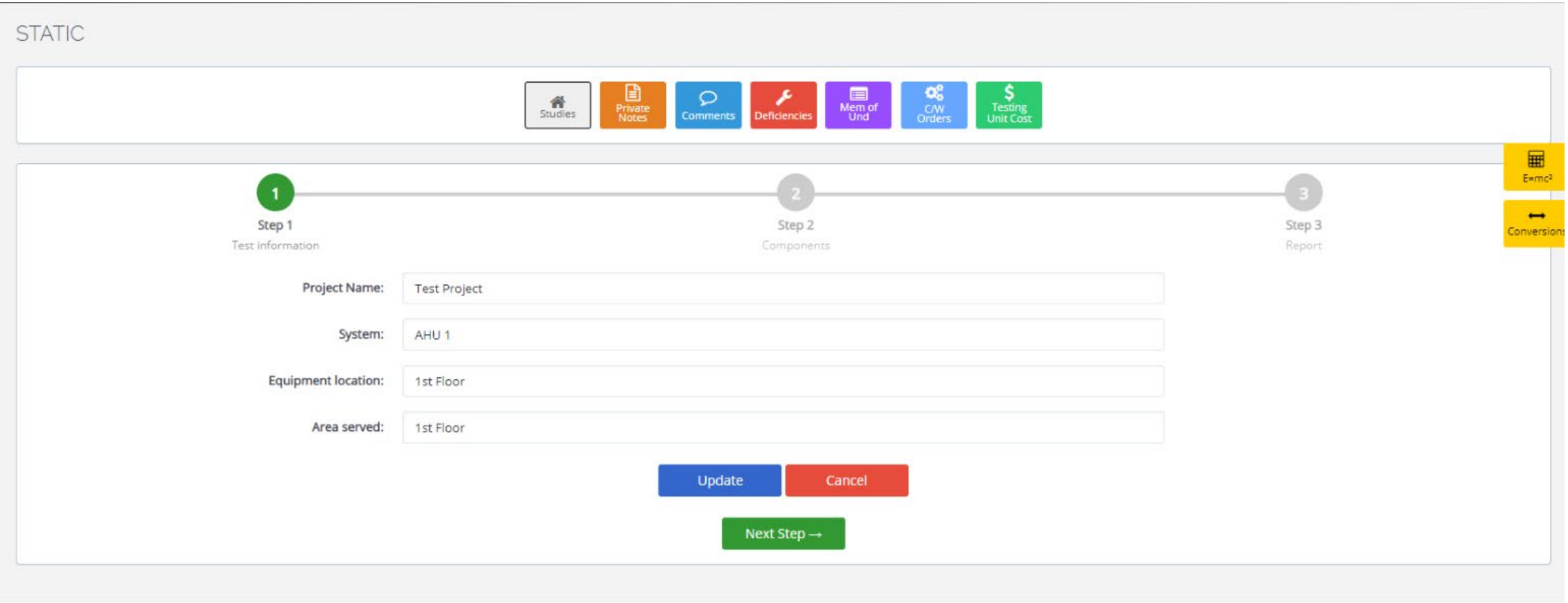
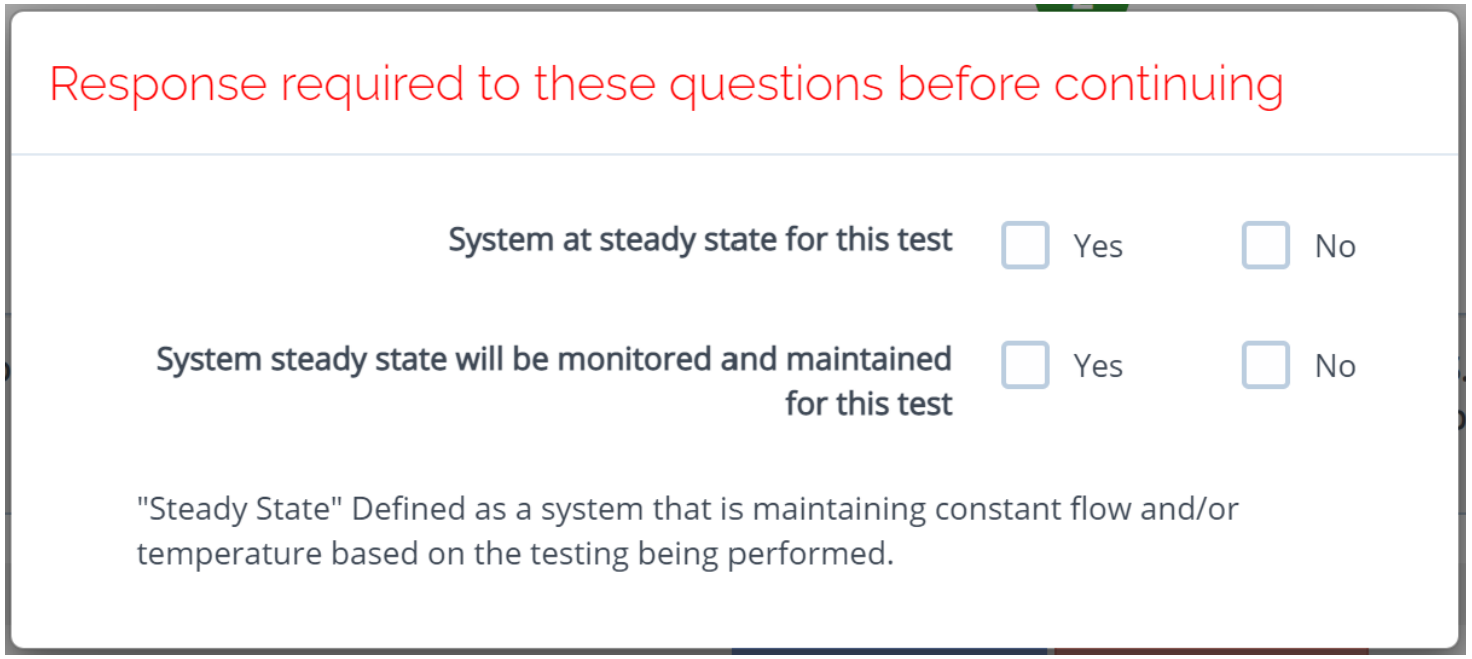
Audit Master PRO



Click "Static Pressure Report"



Enter System Information



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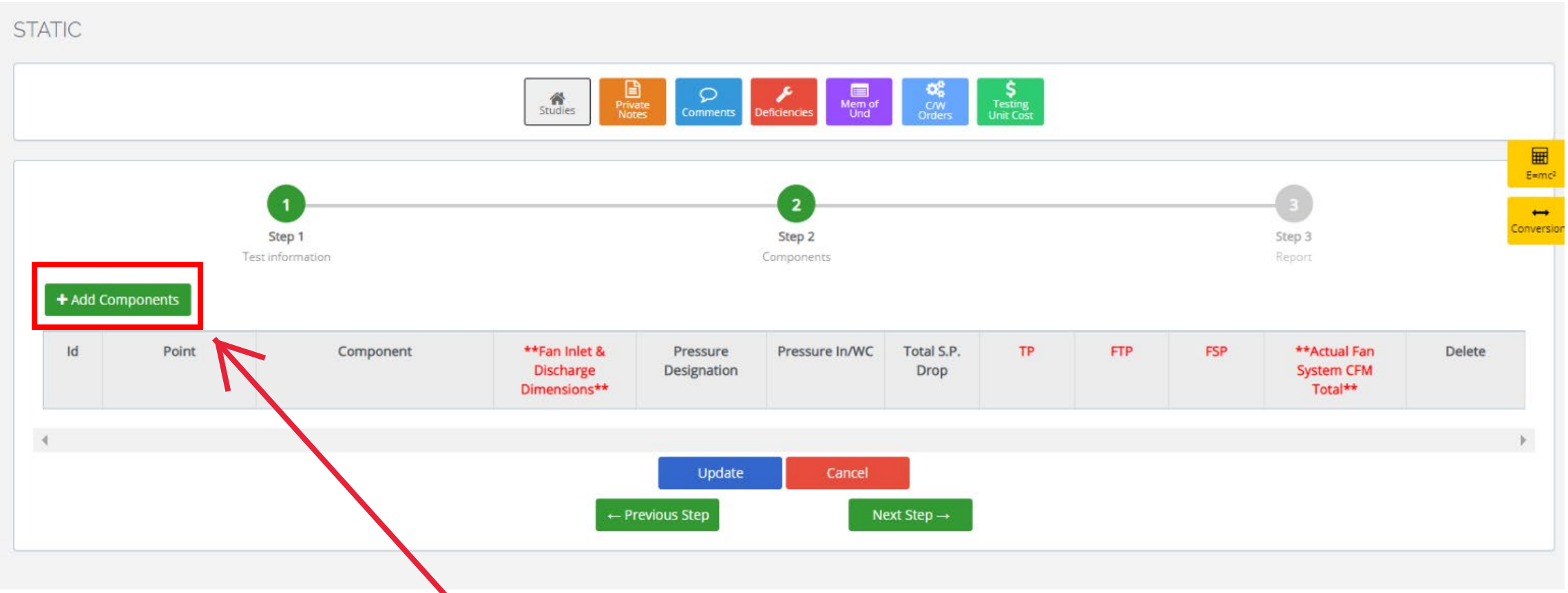
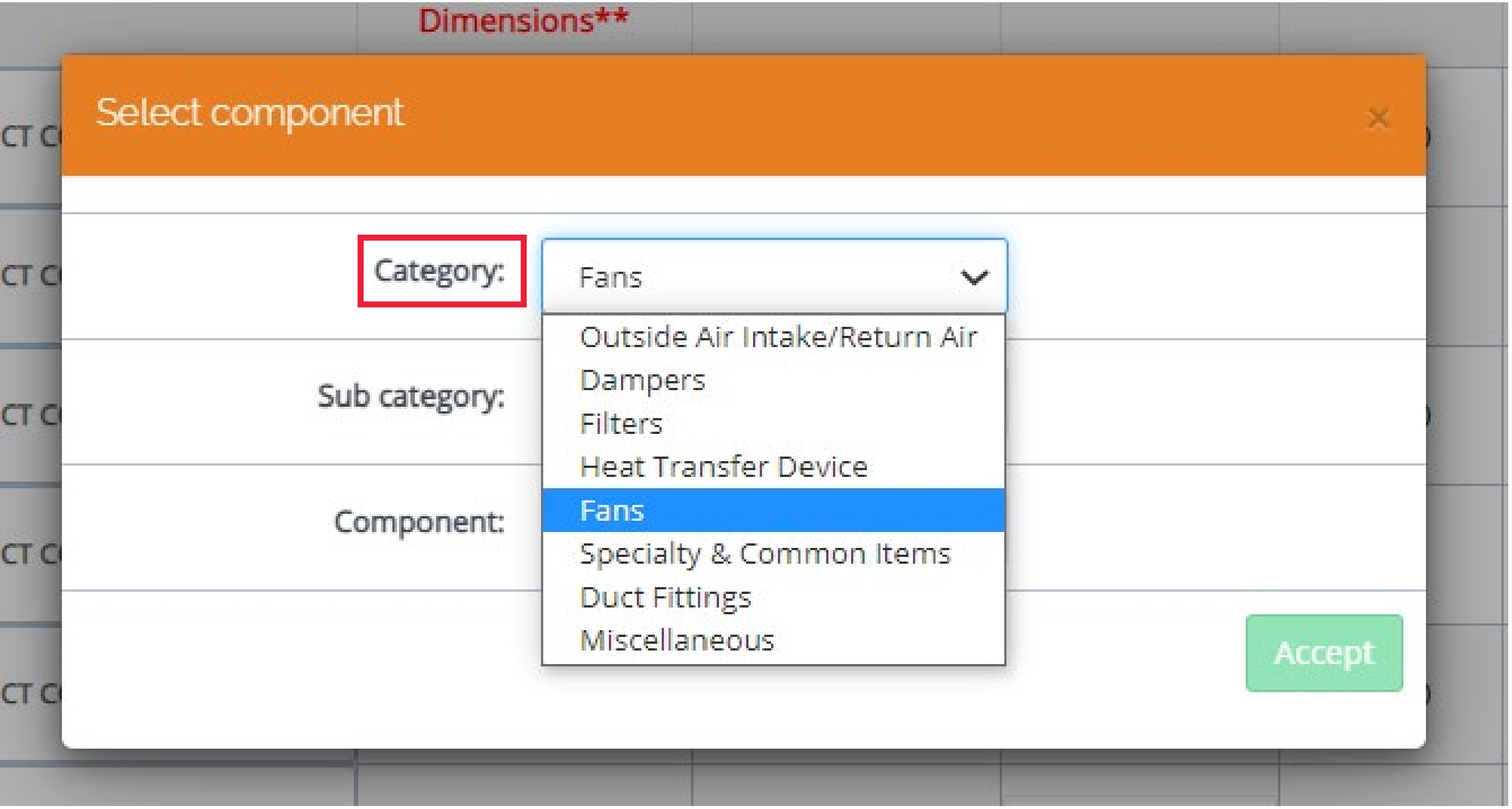
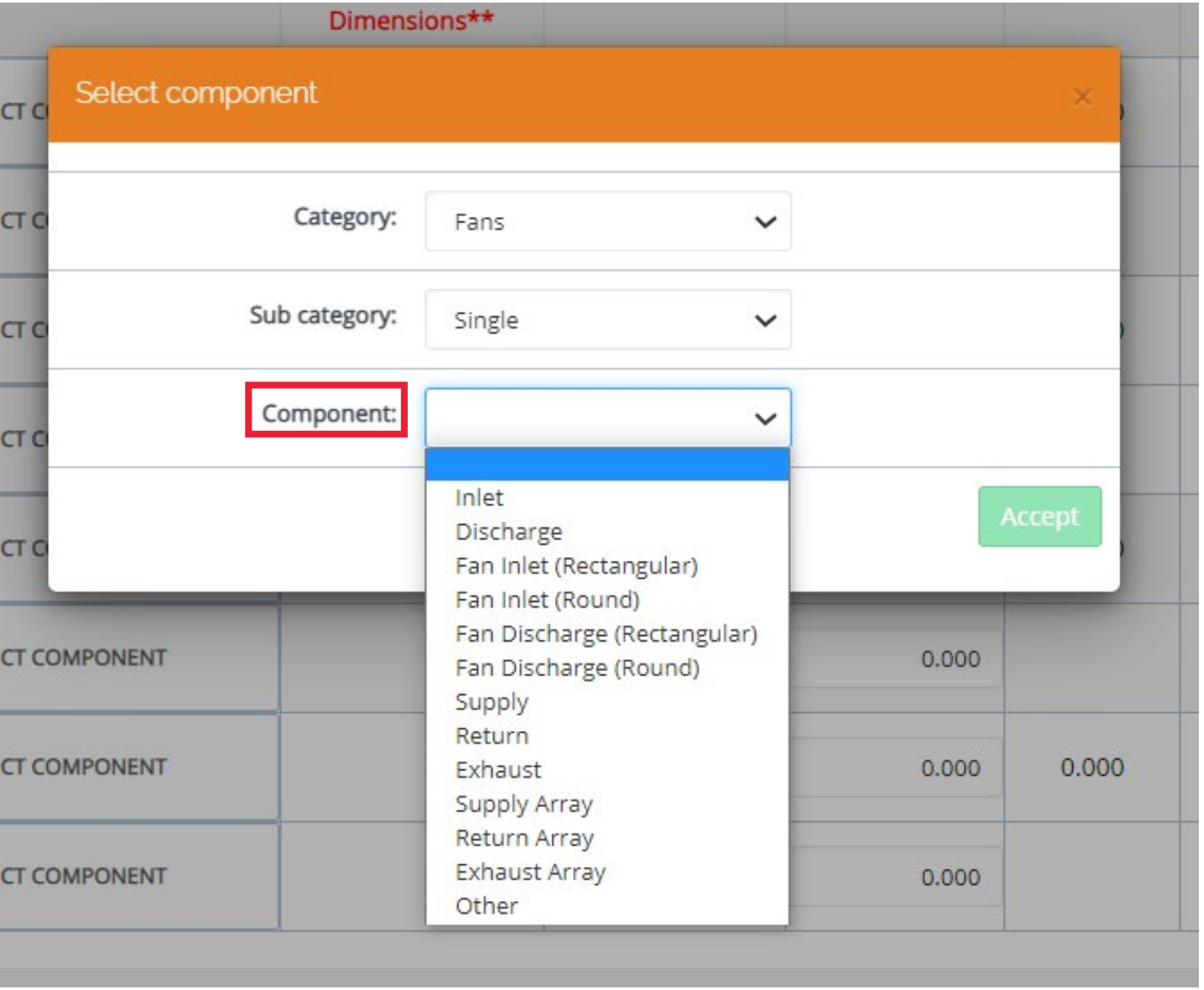


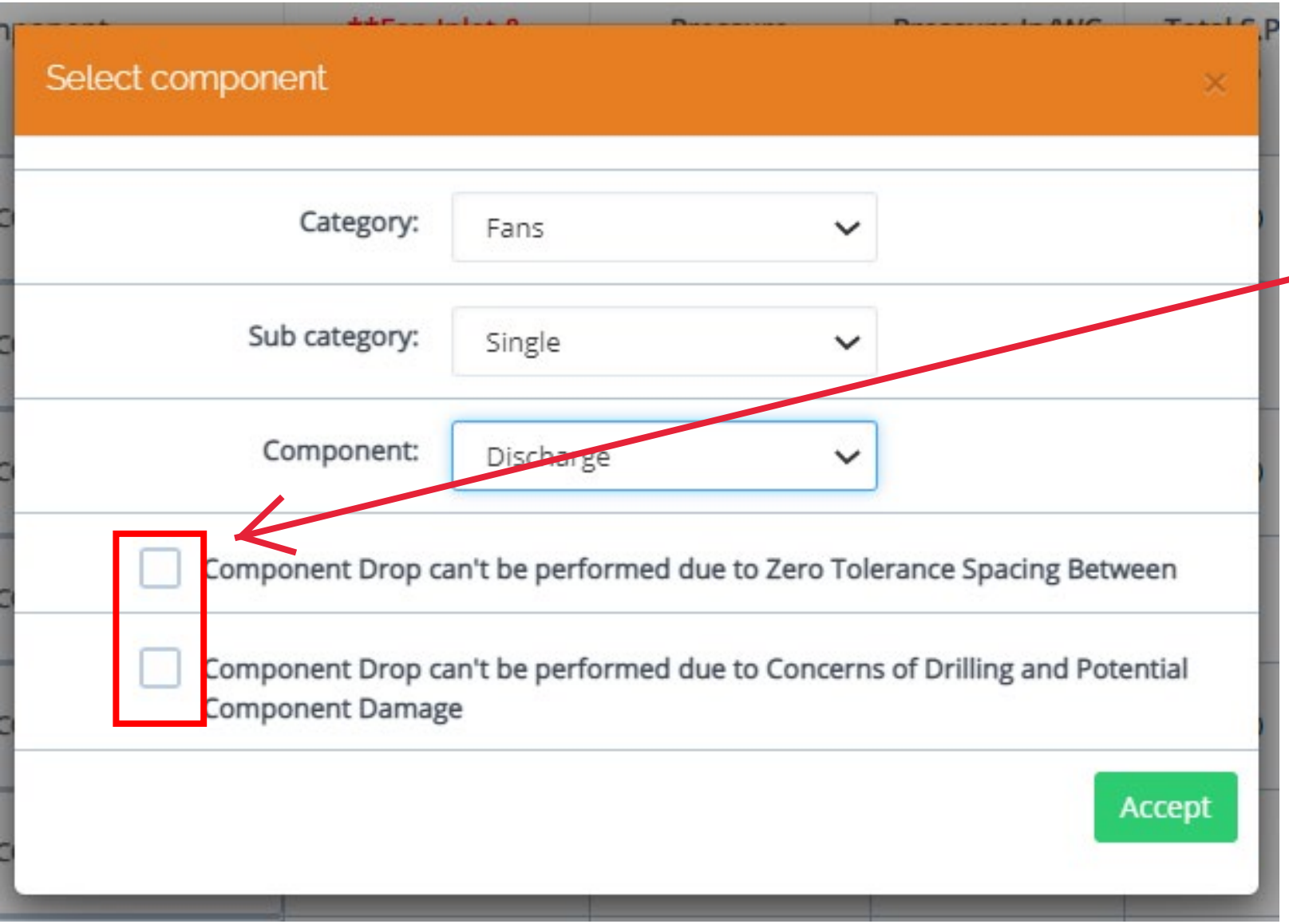
Click "Add Components" to select the Category, Sub-Category and Components for the Static Pressure Test.



Select Category for Static Pressure Test.

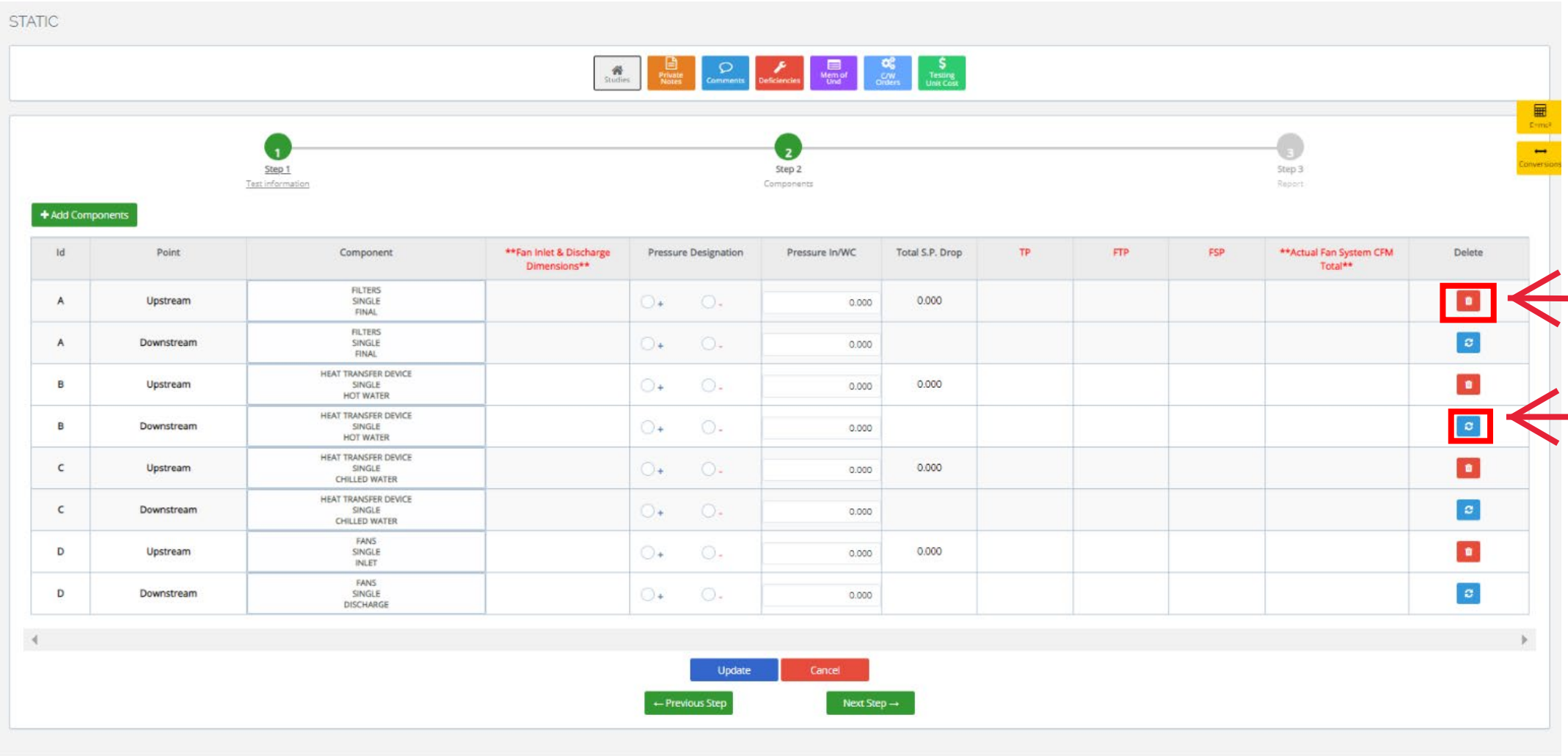


Select the Component where Static Pressure is being taken.



Click the box that best reflects why Static Pressures cannot be taken. A description box will auto-populate.

Audit Master PRO



Delete Component

Manually Refresh Calculations

Enter Actual Static Pressures

Audit Master PRO

STATIC

Studies | Private Notes | Comments | Deficiencies | Mem of Und | C/W Orders | Testing Unit Cost

1 Step 1 Test information — 2 Step 2 Components — 3 Step 3 Report

Conversions

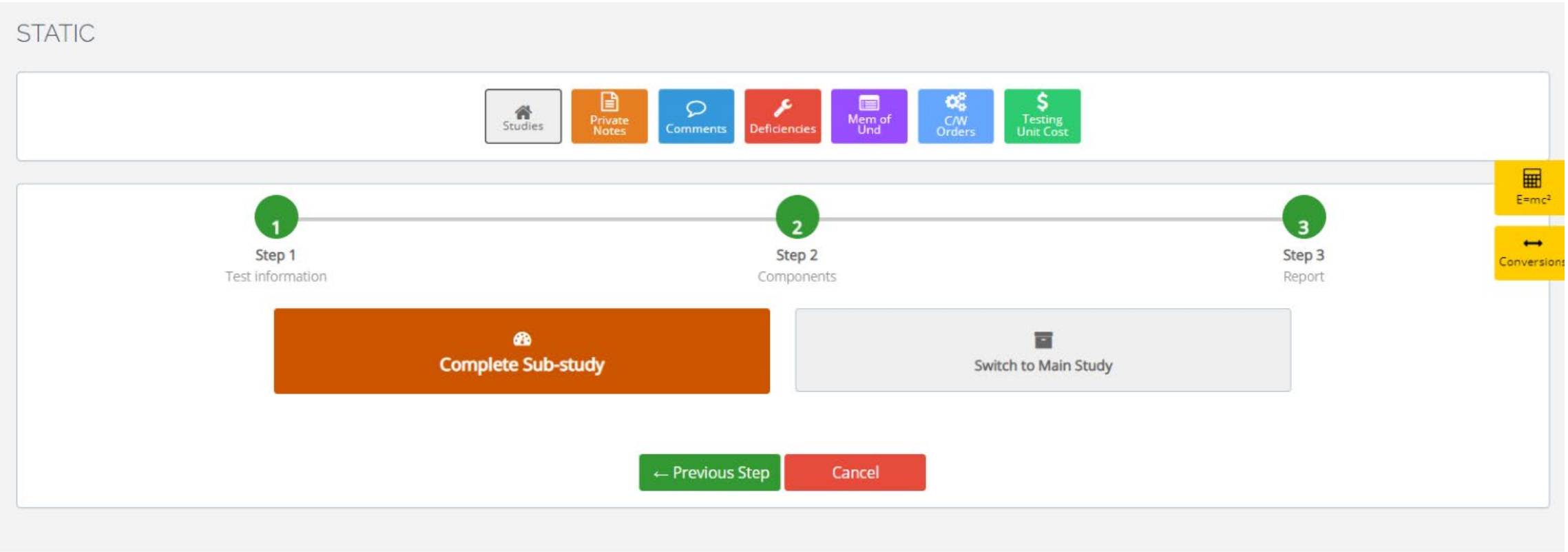
+ Add Components

Id	Point	Component	**Fan Inlet & Discharge Dimensions**	Pressure Designation	Pressure In/WC	Total S.P. Drop	TP	FTP	FSP	**Actual Fan System CFM Total**	Delete
A	Upstream	FILTERS SINGLE FINAL		+ -	0.850	0.160					
A	Downstream	FILTERS SINGLE FINAL		+ -	1.010						
B	Upstream	HEAT TRANSFER DEVICE SINGLE HOT WATER		+ -	1.010	0.340					
B	Downstream	HEAT TRANSFER DEVICE SINGLE HOT WATER		+ -	1.350						
C	Upstream	HEAT TRANSFER DEVICE SINGLE CHILLED WATER		+ -	1.350	0.320					
C	Downstream	HEAT TRANSFER DEVICE SINGLE CHILLED WATER		+ -	1.670						
D	Upstream	FANS SINGLE INLET		+ -	1.670	3.690					
D	Downstream	FANS SINGLE DISCHARGE		+ -	2.020						

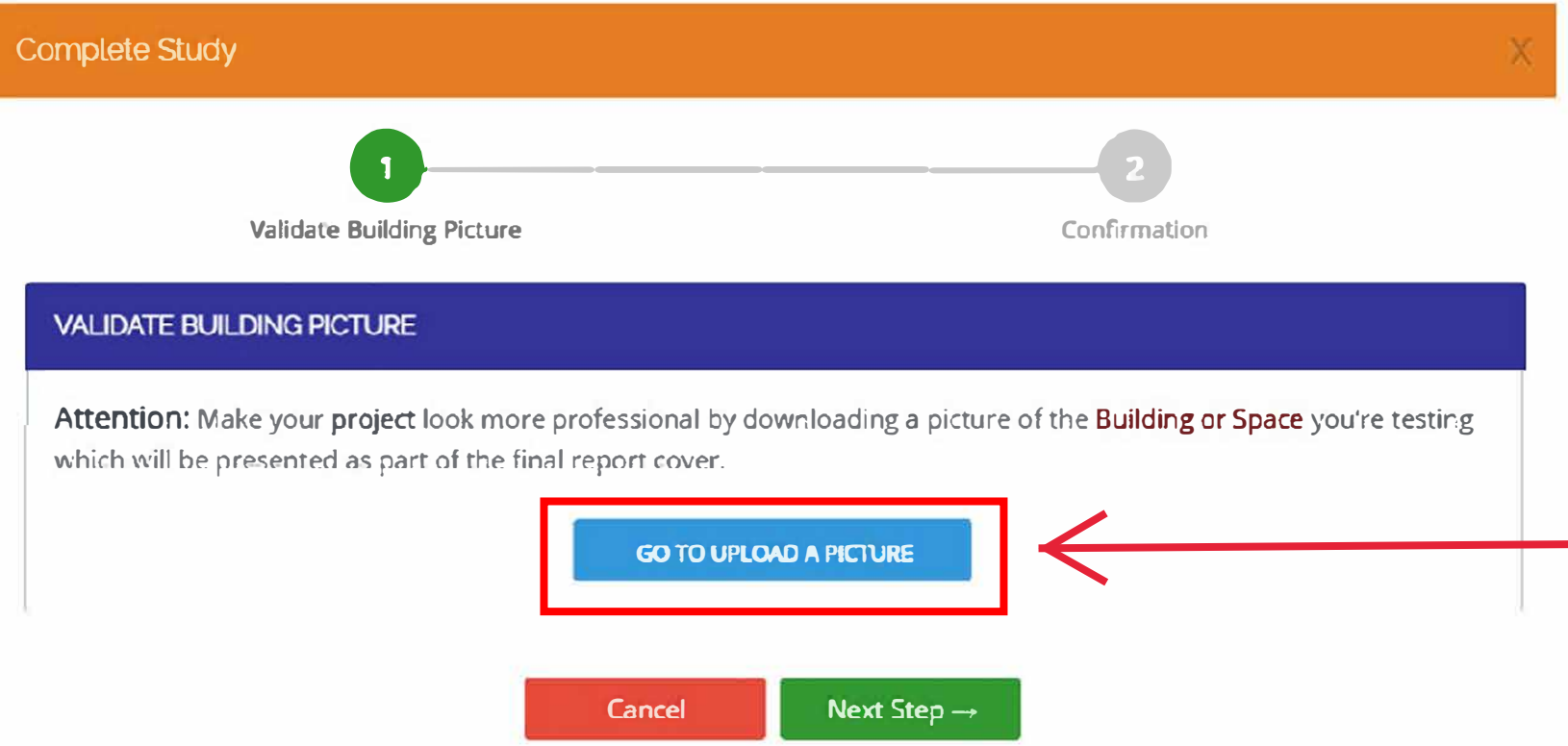
Update | Cancel

← Previous Step | Next Step →

All readings will automatically calculate total pressure drop.

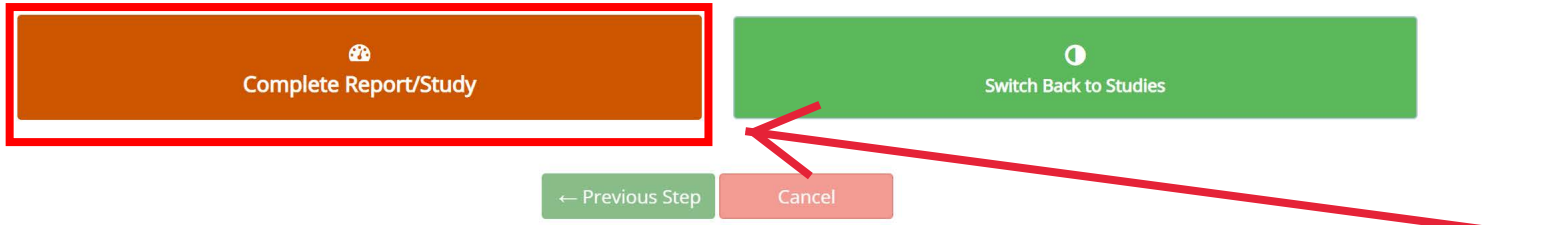


Complete Report/Study



Upload a picture of the building you are working on which will be displayed as the front page of the final report.

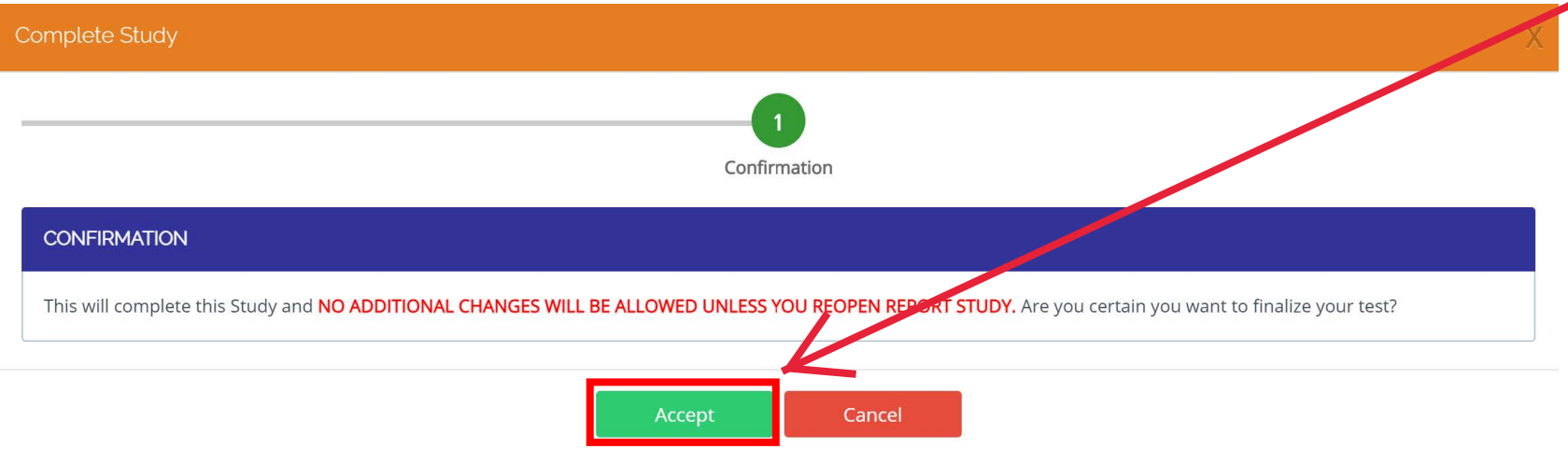
Tip: Enter the address into a search engine and copy the photo shown which best represents the building.



After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation



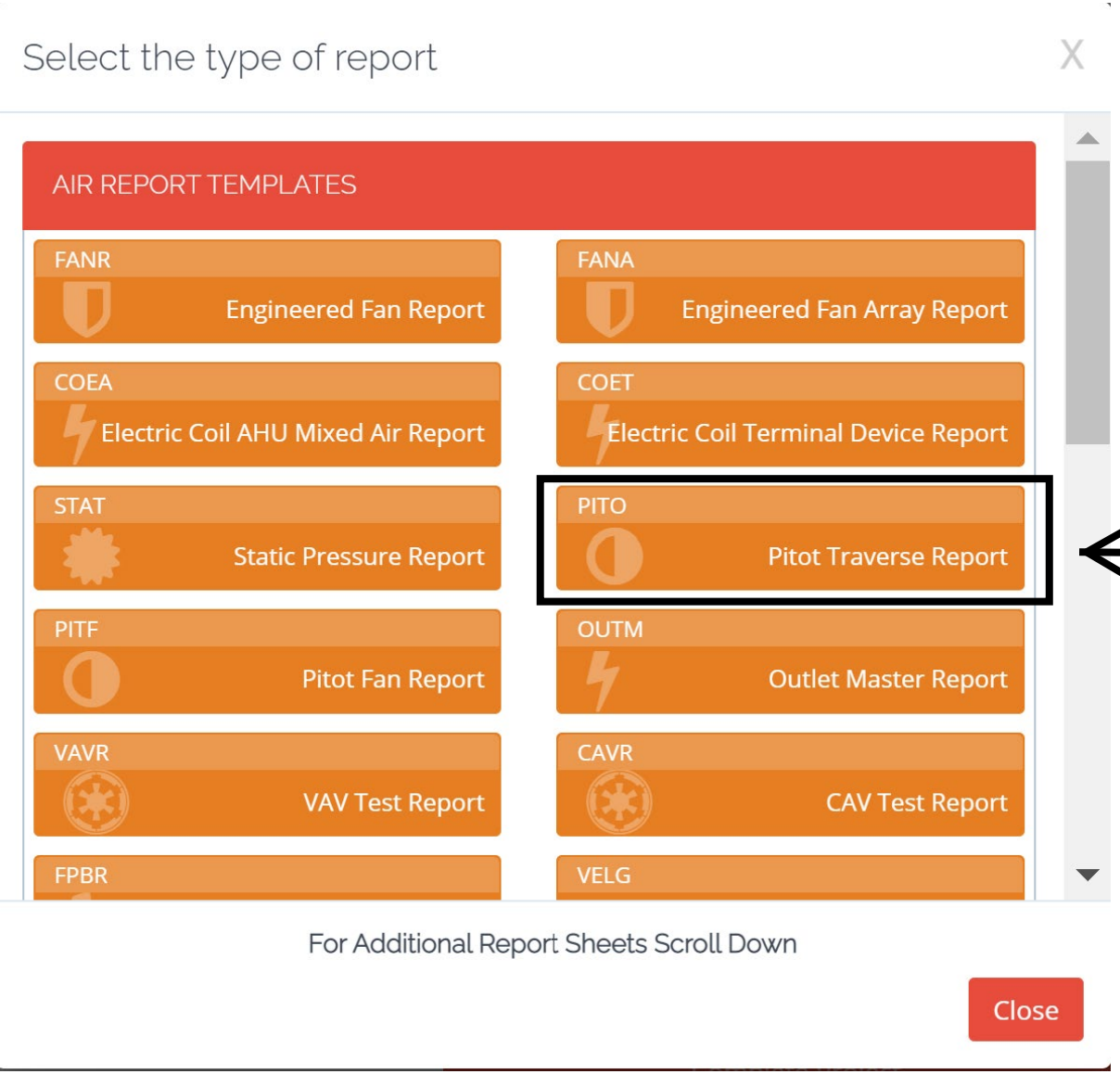
Audit Master Pro Training

Pitot Traverse Report

This tutorial will act as a guide to create and input all data required for the selected air study.

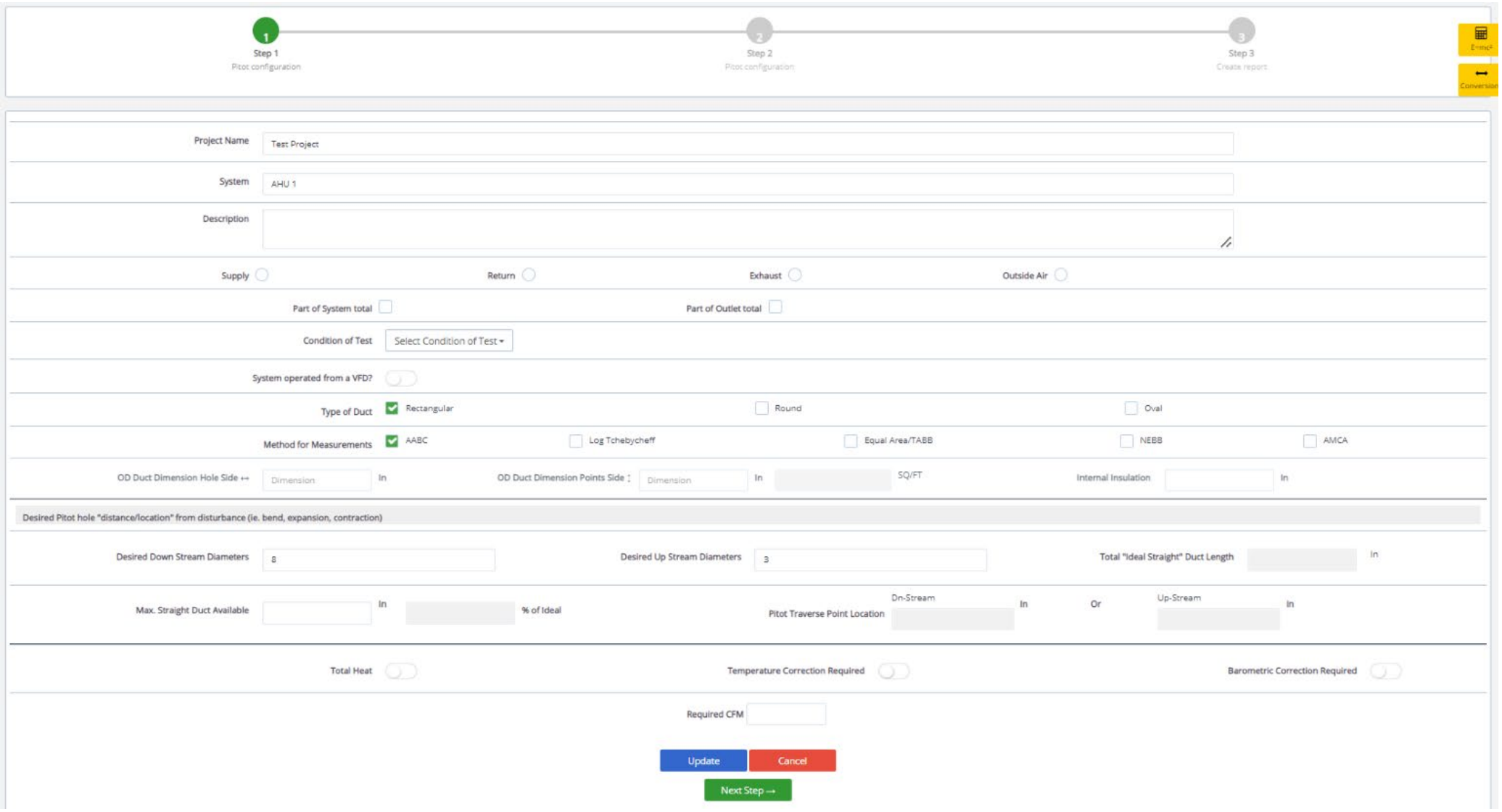
Go to Index

Audit Master PRO



Click "Pitot Traverse Report"

Audit Master PRO



Enter System Data

Audit Master PRO

Supply Return Exhaust Outside Air

Part of System total Part of Outlet total

Condition of Test: Select Condition of Test

- NOC (Normal Operating Condition)
- 100 % Outside Air
- 100 % Return Air
- 100 % Exhaust Air
- Minimum Outside Air
- Mixed Air
- Other

System operated from a VFD?

Type of Duct: Round Oval

Method for Measurements: ...cheff Equal Area/TABB NEBB AMCA

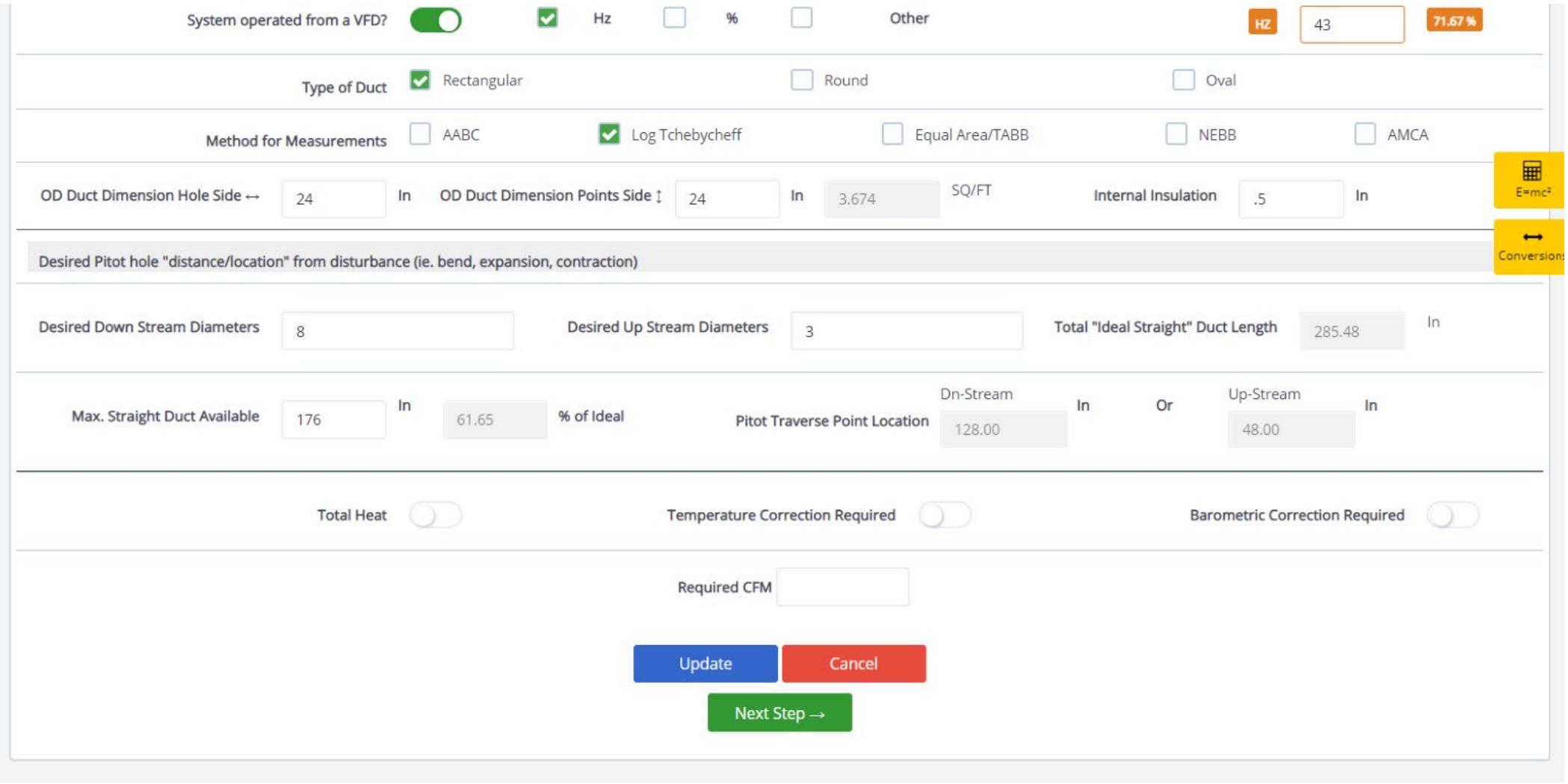
OD Duct Dimension Hole Side ↔: Dimensio... In SQ/FT Internal Insulation In

Desired Pitot hole "distance/location" from disturbance (ie. bend, expansion, contraction)

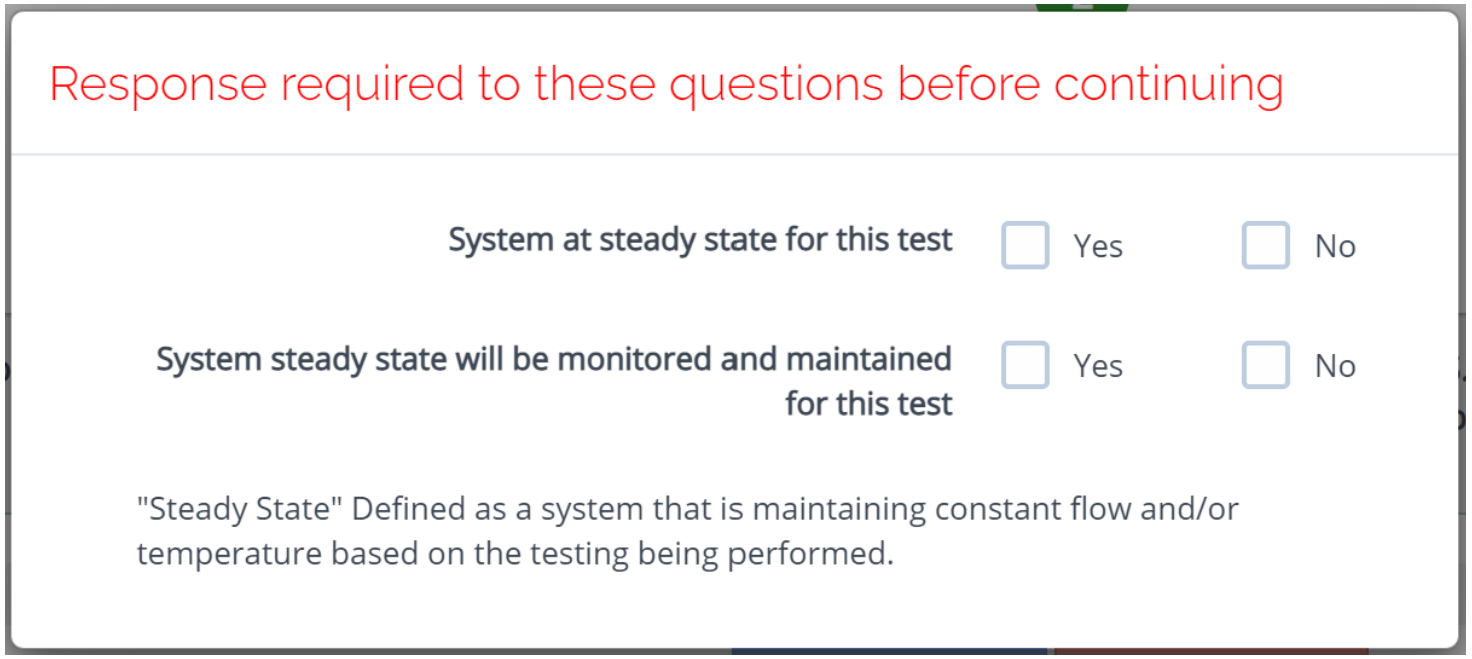
Desired Down Stream Diameters: 8 Desired Up Stream Diameters: 3 Total "Ideal Straight" Duct Length In

Select Condition of Test

Audit Master PRO



Enter Data



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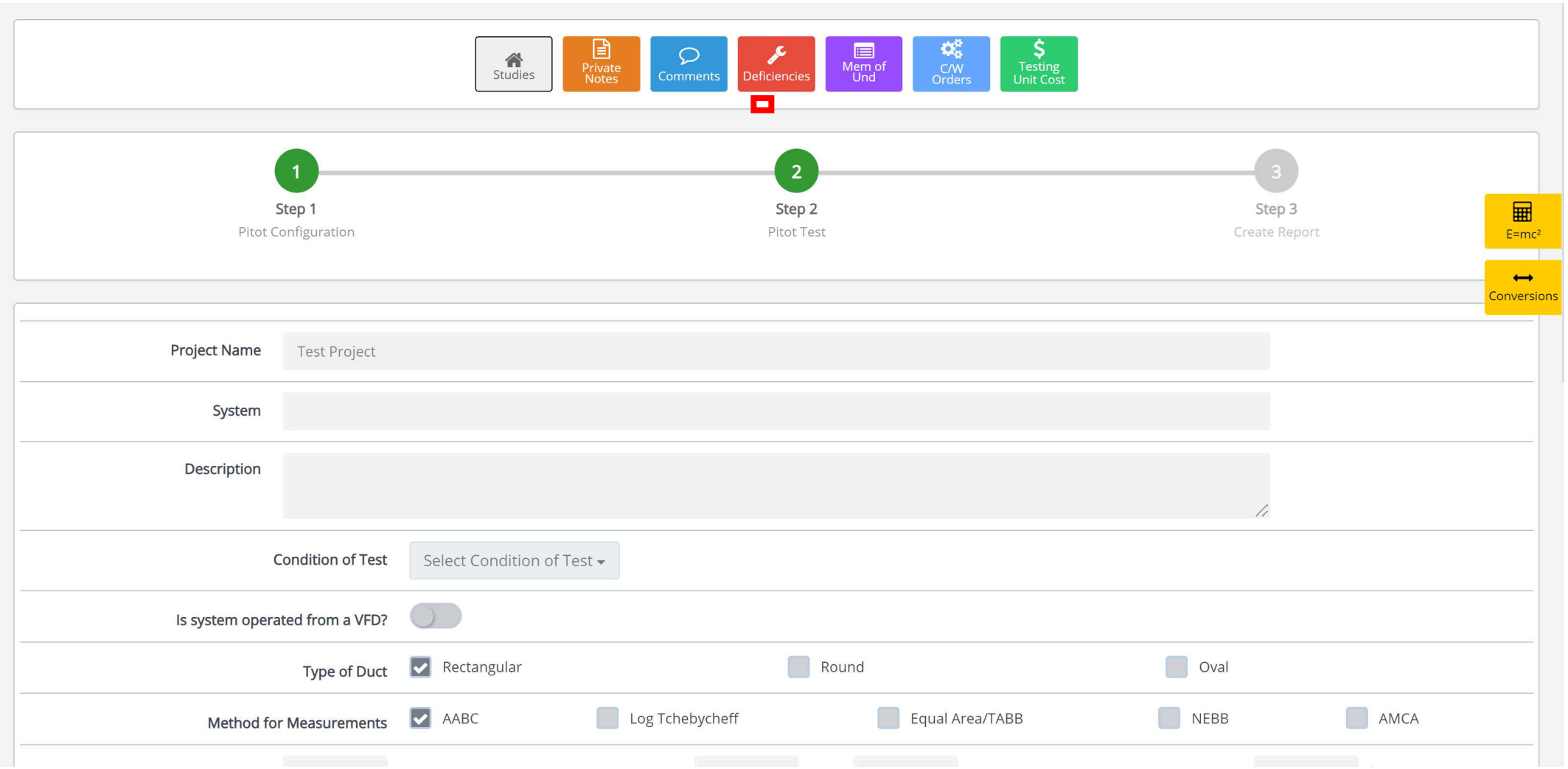
Steady state is critical to testing as it ensures that any readings or calibrations are repeatable.

Audit Master PRO



Enter Data

OD Duct Dimension Hole Side 24 In OD Duct Dimension Points Side 24 In 3.674 SQ/FT Internal Insulation 0.5 In

Desired Pitot hole "distance/location" from disturbance (ie. bend, expansion, contraction)

Desired Down Stream Diameters 8 Desired Up Stream Diameters 3 Total "Ideal Straight" Duct Length 285.48

Max. Straight Duct Available 176 In 61.65 % of Ideal Pitot Traverse Point Location Dn-Stream 128.00 In Or Up-Stream 48.00 In

E=mc² Conversion

Temperature Correction Required Barometric Correction Required

Required CFM

Point Side \ Hole Side	2.20	7.12	12.00	16.88	21.80
2.202	Ft/min	Ft/min	Ft/min	Ft/min	Ft/min
7.124	Ft/min	Ft/min	Ft/min	Ft/min	Ft/min
12	Ft/min	Ft/min	Ft/min	Ft/min	Ft/min
16.876	Ft/min	Ft/min	Ft/min	Ft/min	Ft/min
21.798	Ft/min	Ft/min	Ft/min	Ft/min	Ft/min

Avg Velocity 0.00 Actual ACFM 0.00 % of Design 0.00 Sensible BTU/H

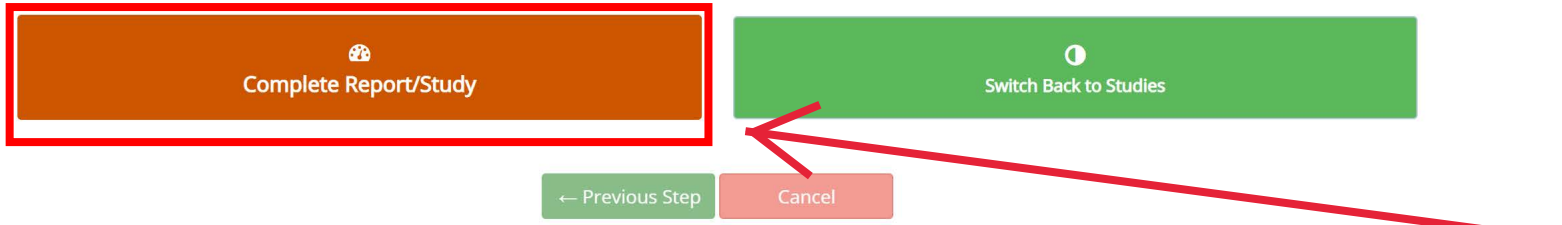
Airflow Temperature For Energy Calculation DB* Required

Update Cancel

← Previous Step Next Step →

Audit Master PRO™

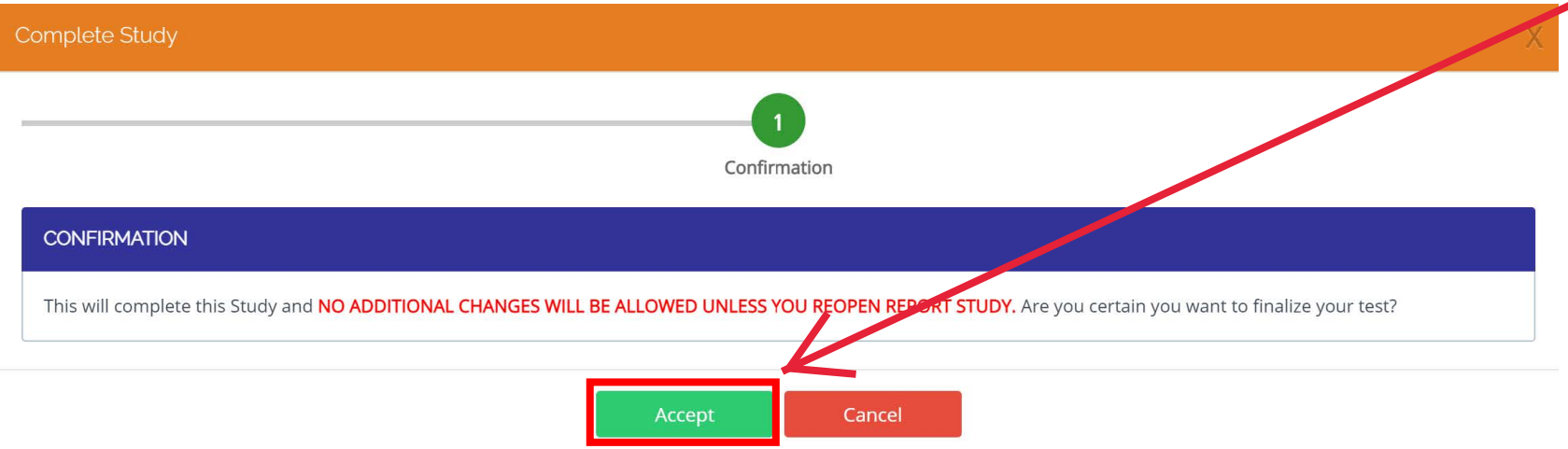
Enter Pitot Readings



After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation



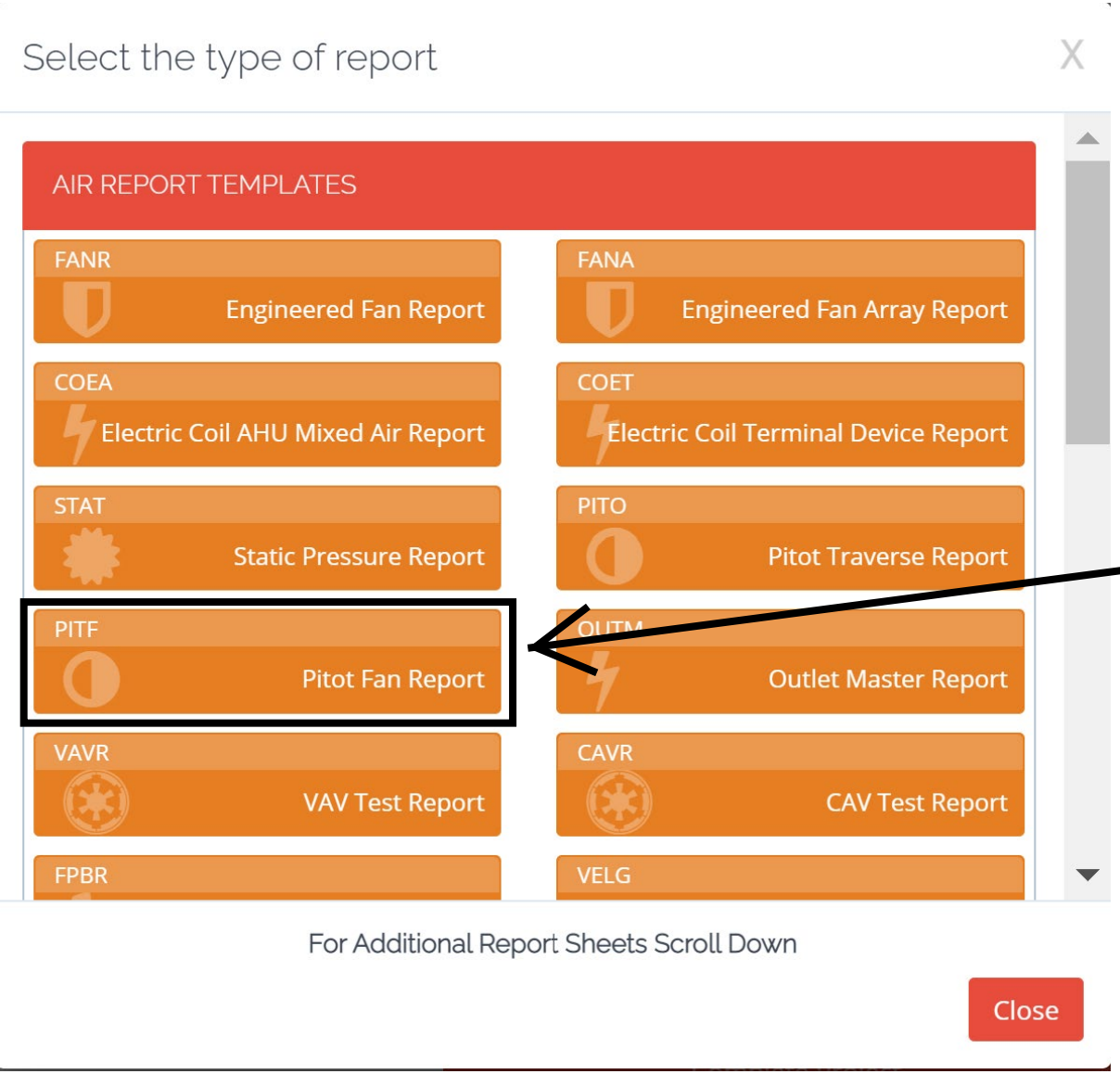
Audit Master Pro Training

Pitot Fan Report

This tutorial will act as a guide to create and input all data required for the selected air study.

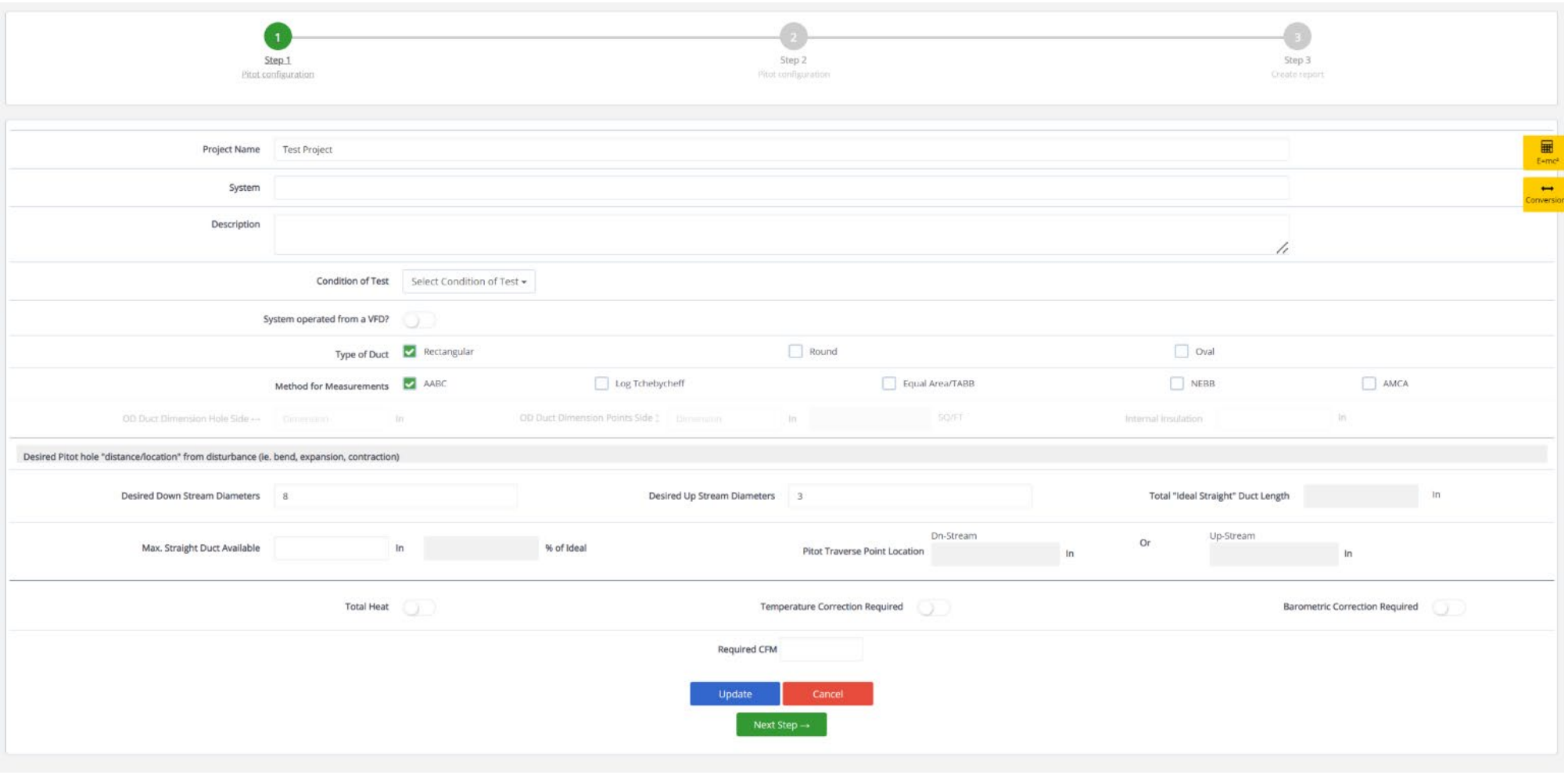
Go to Index

Audit Master PRO

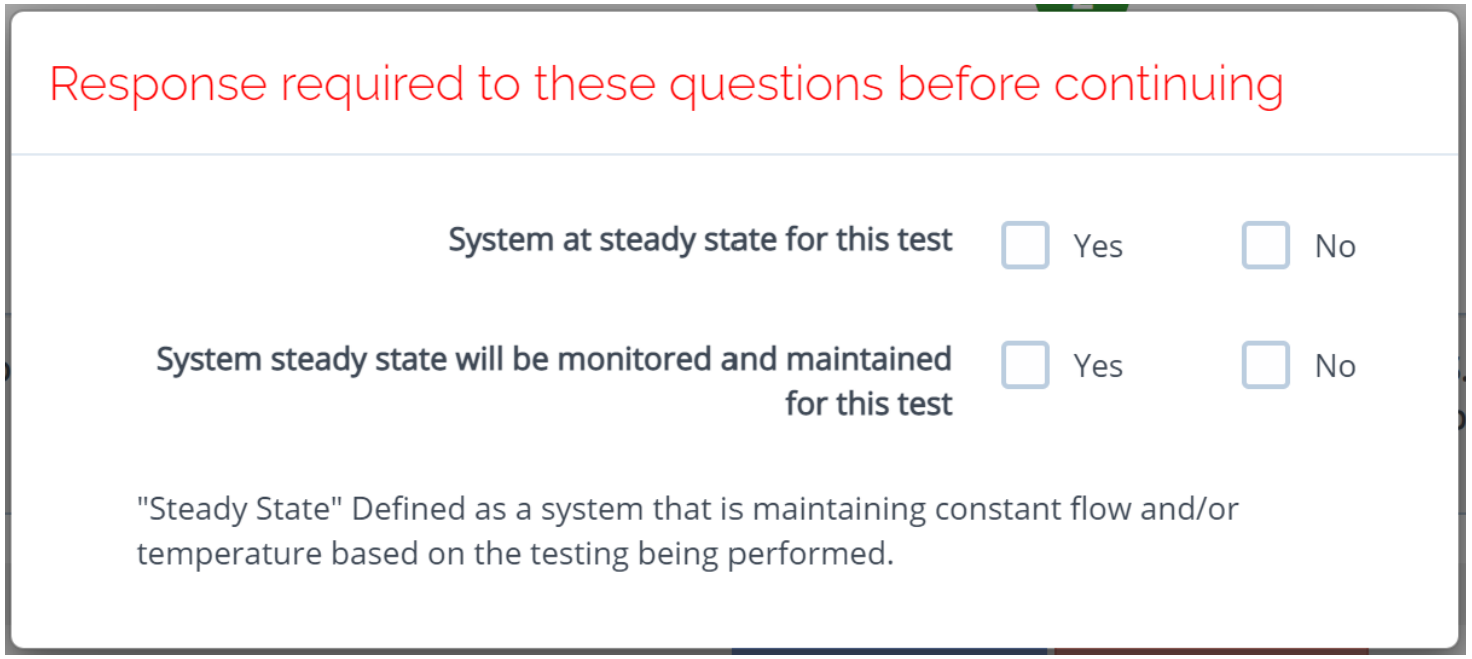


Click "Pitot Fan Report"

Audit Master PRO



Enter System Data



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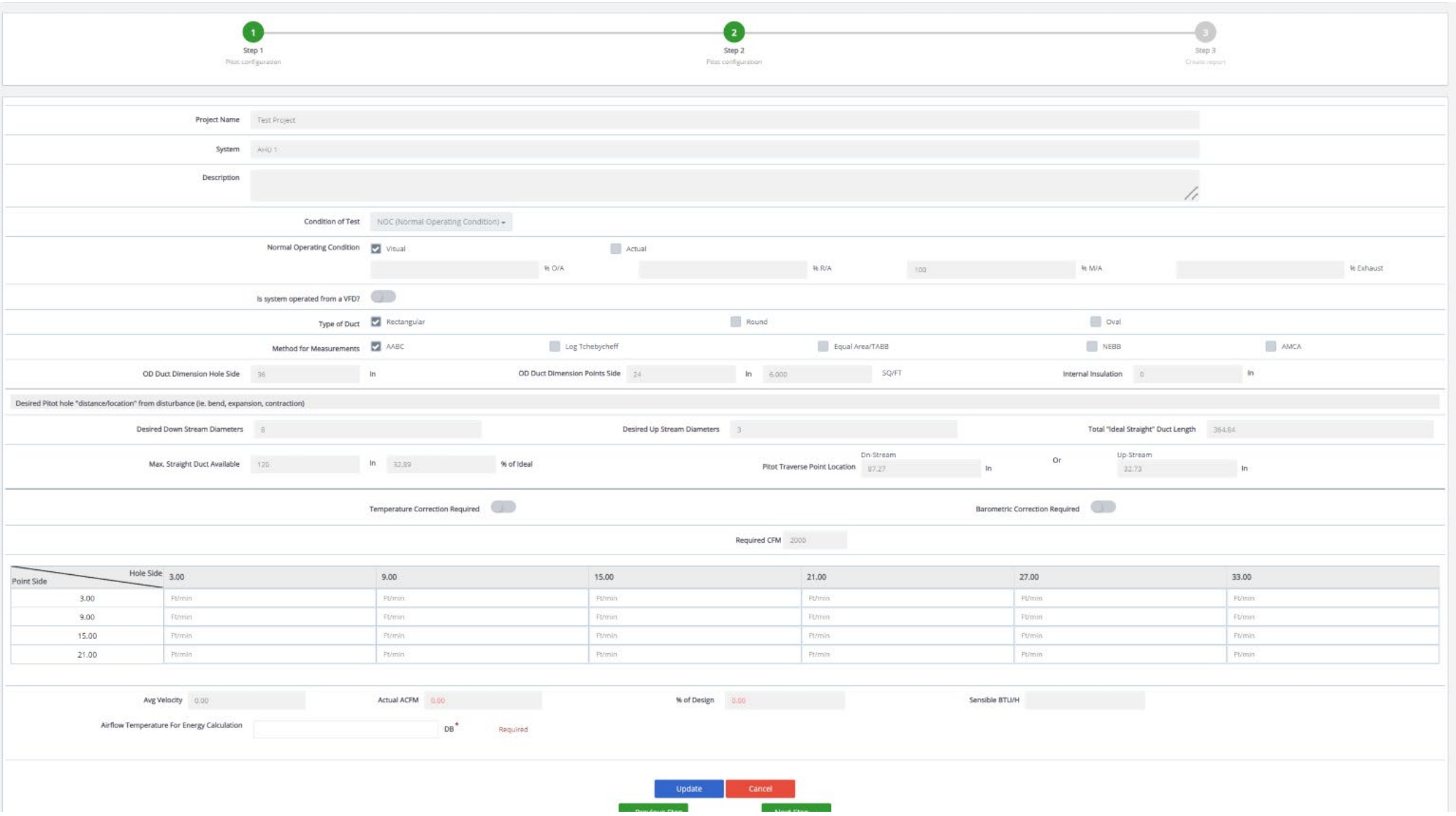
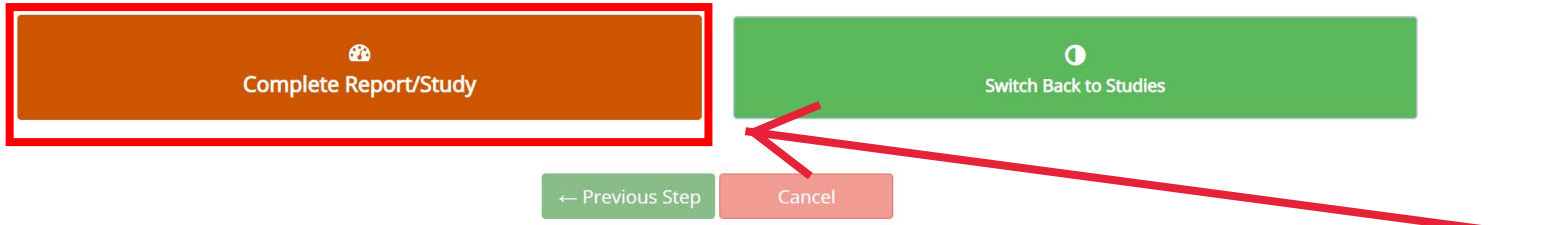
Audit Master PRO



Enter Pitot Data



After all data has been entered, the last steps will be:

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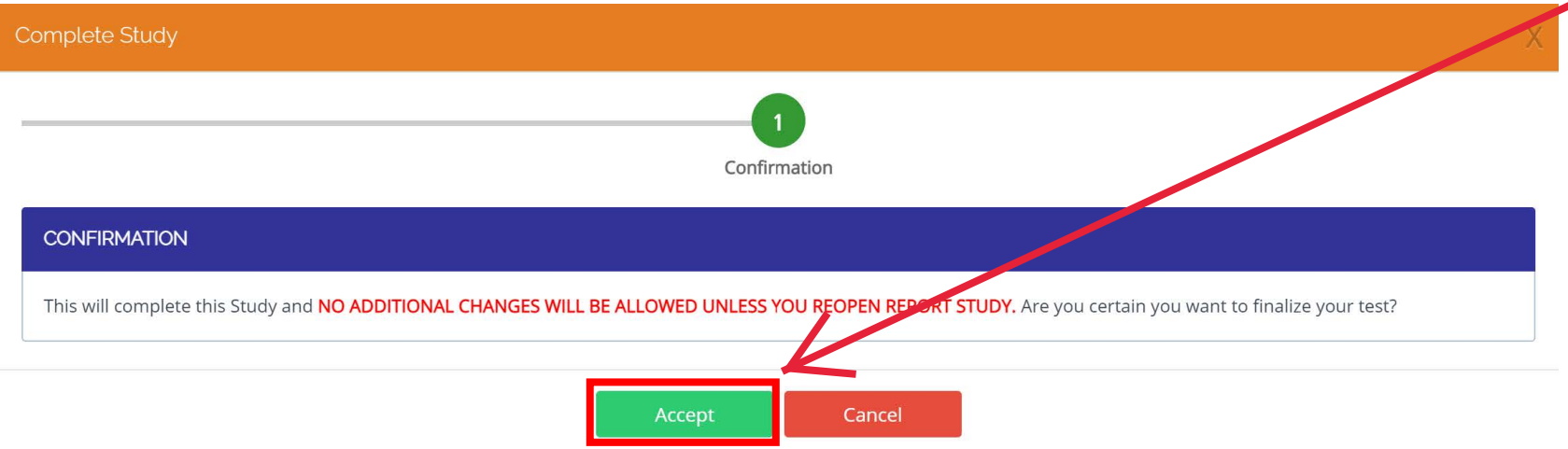
Accept Confirmation



Audit Master Pro Training

Outlet Master Report

This tutorial will act as a guide to create and input all data required for the selected air study.

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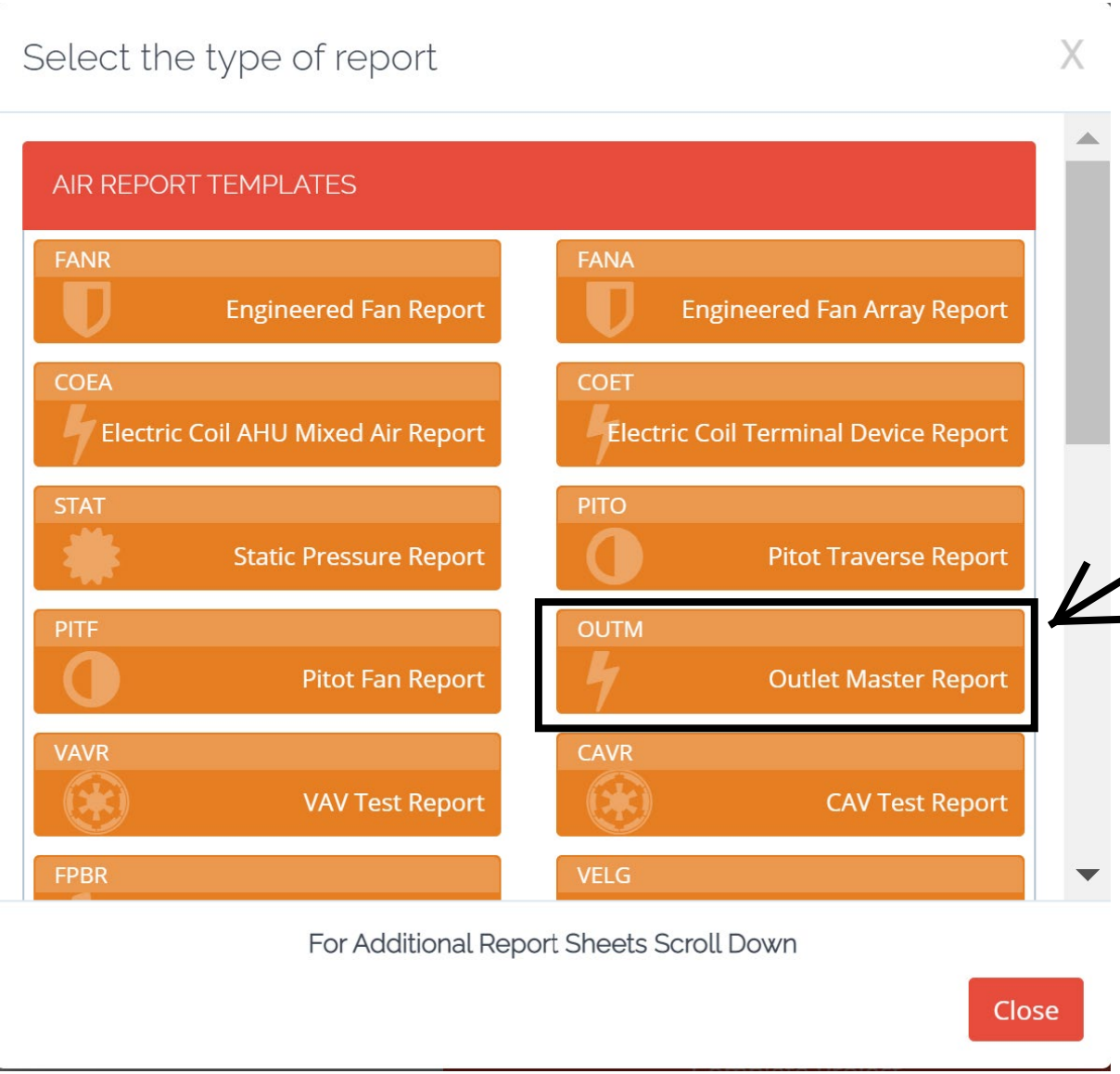
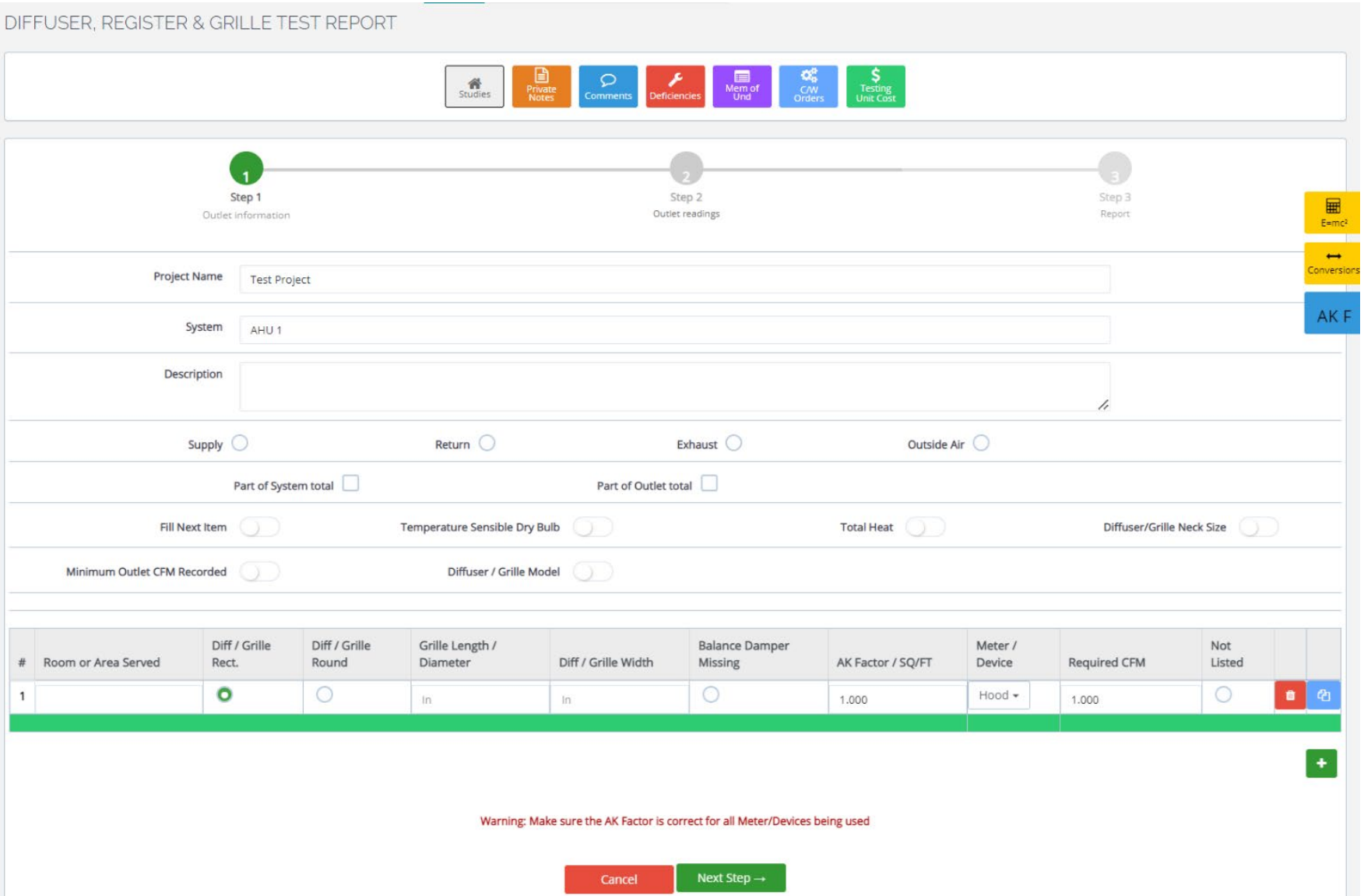
Audit Master PRO



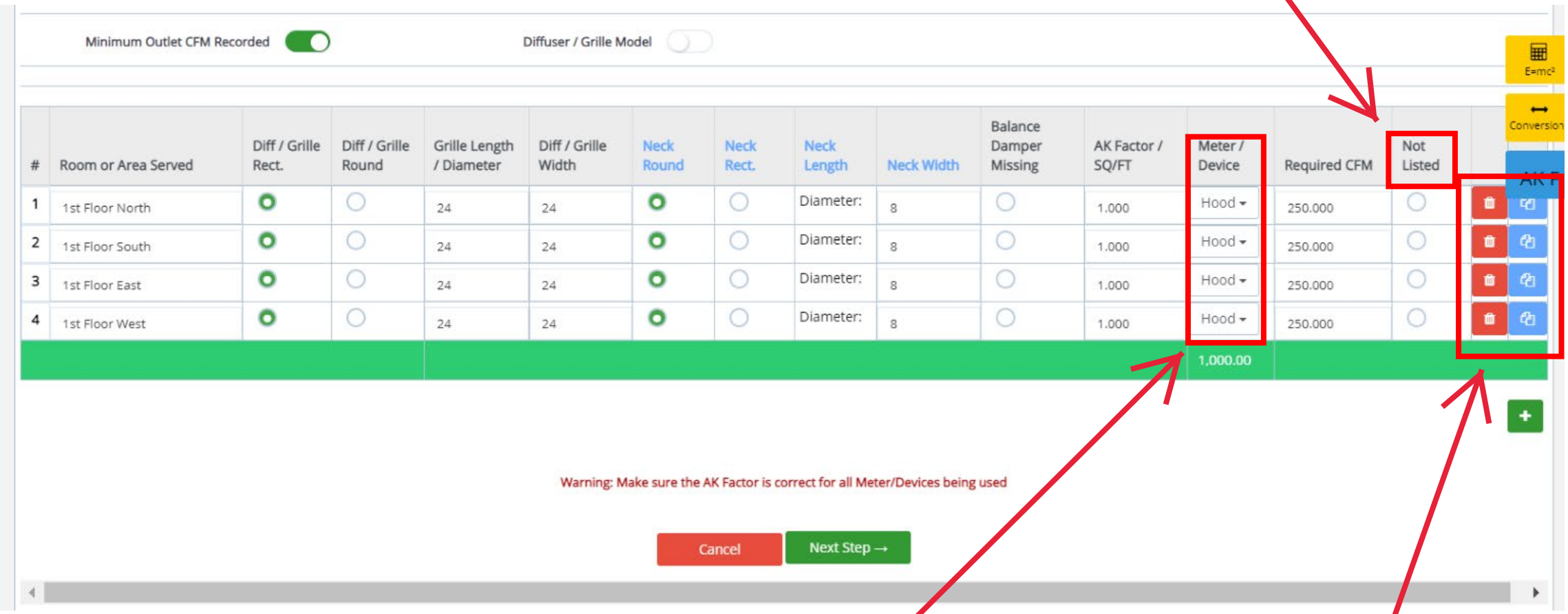
Click "Outlet Master Report"

Audit Master PRO



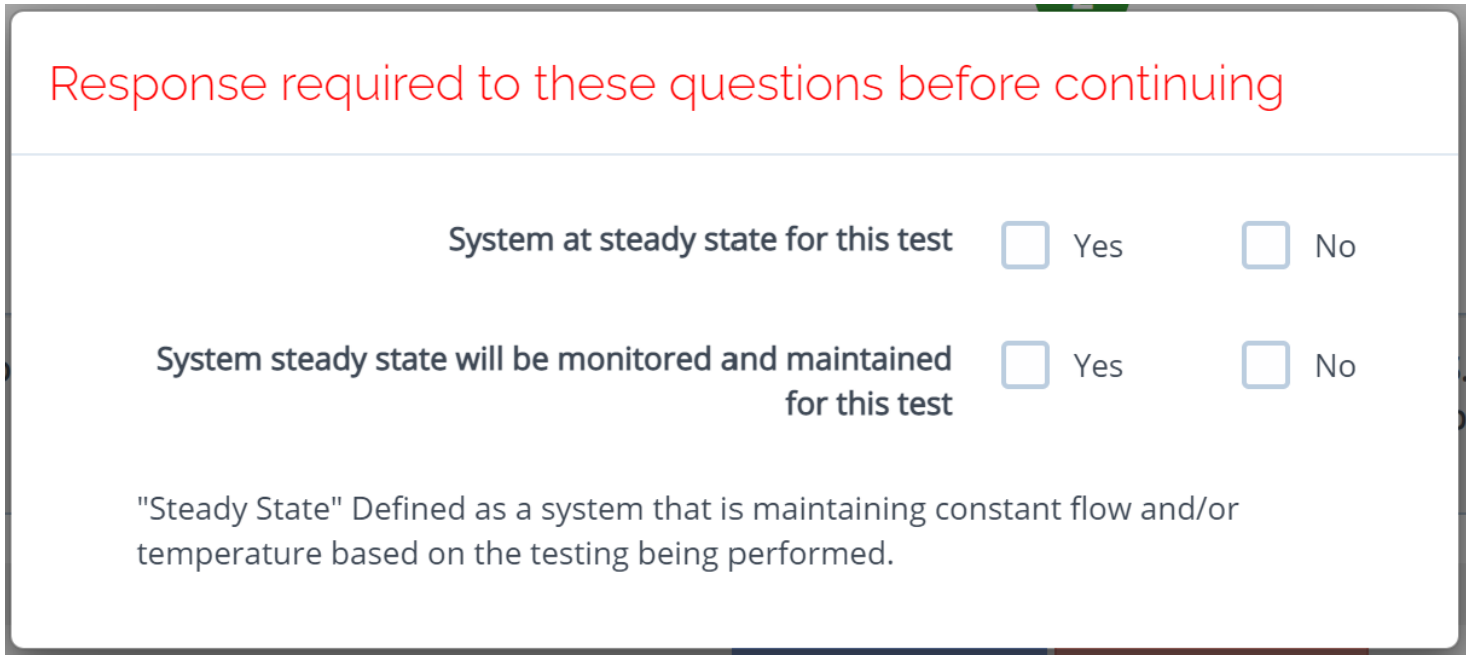
Enter Outlet Information

Add Outlet information shown on prints. If no prints are available, click "Not Listed."



Meter/Device: Choose the equipment being used for this test.

Note: When creating an Outlet, you can select "delete" to remove any outlets or "duplicate" to copy outlets.



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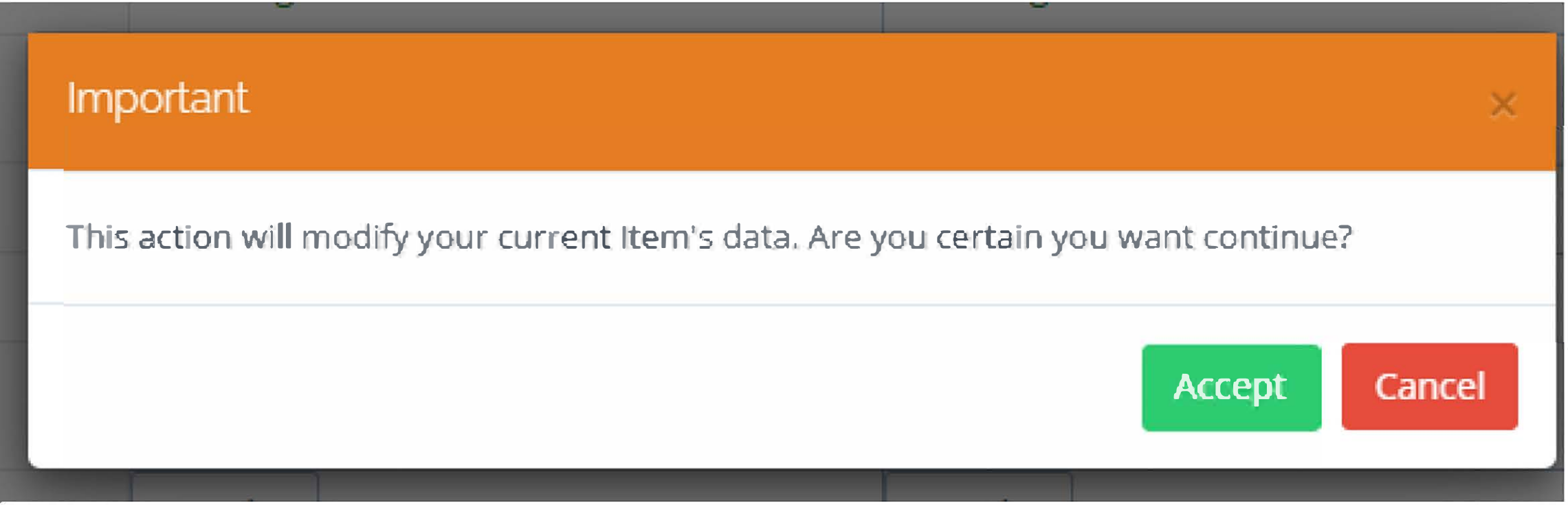
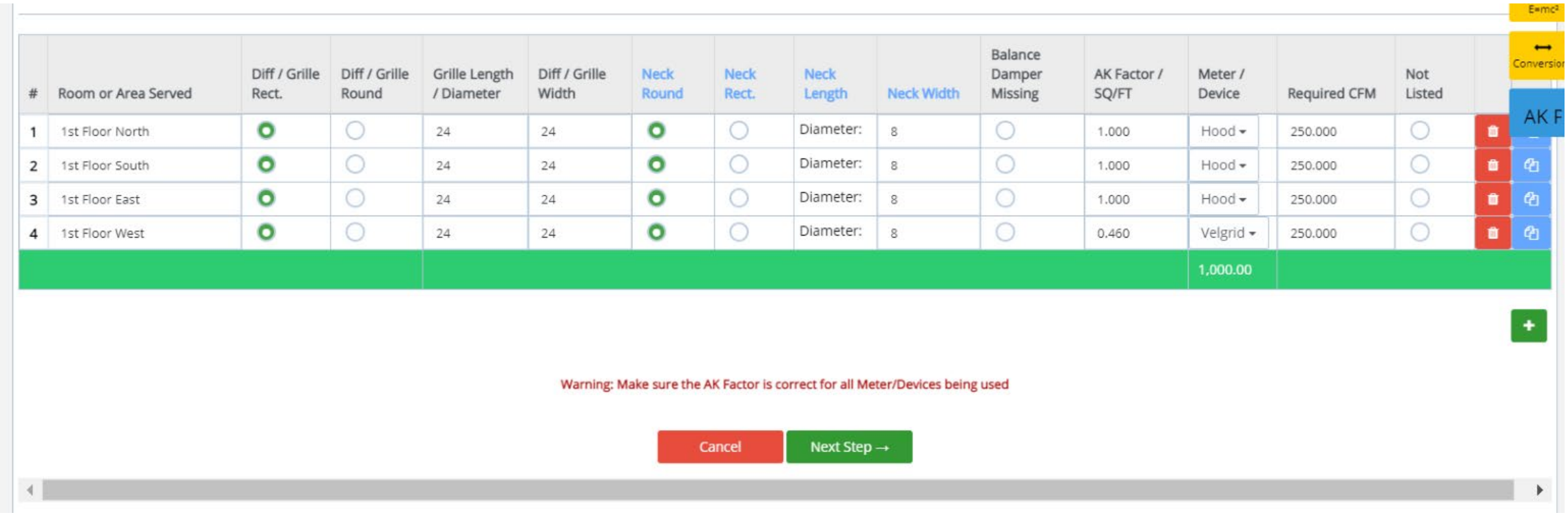
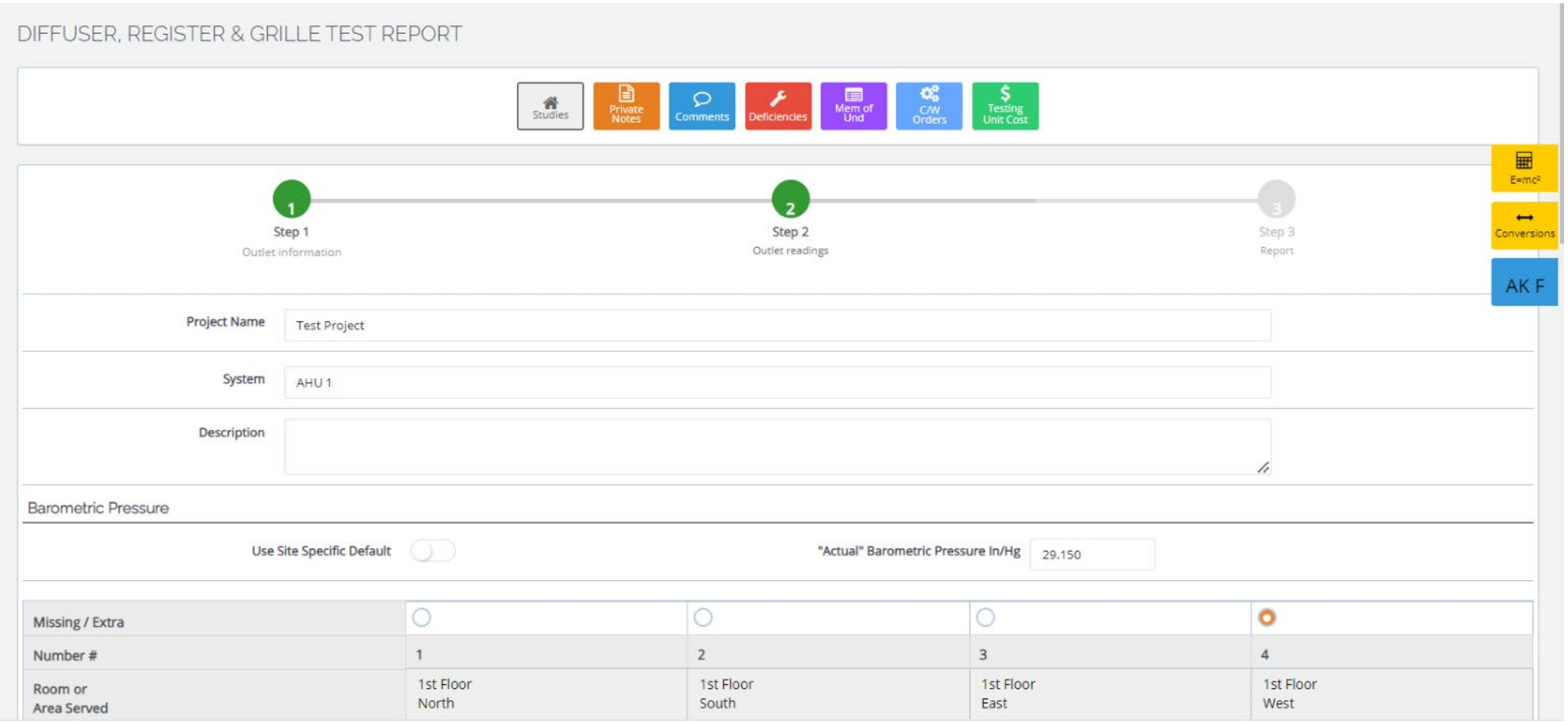


Click "Accept"



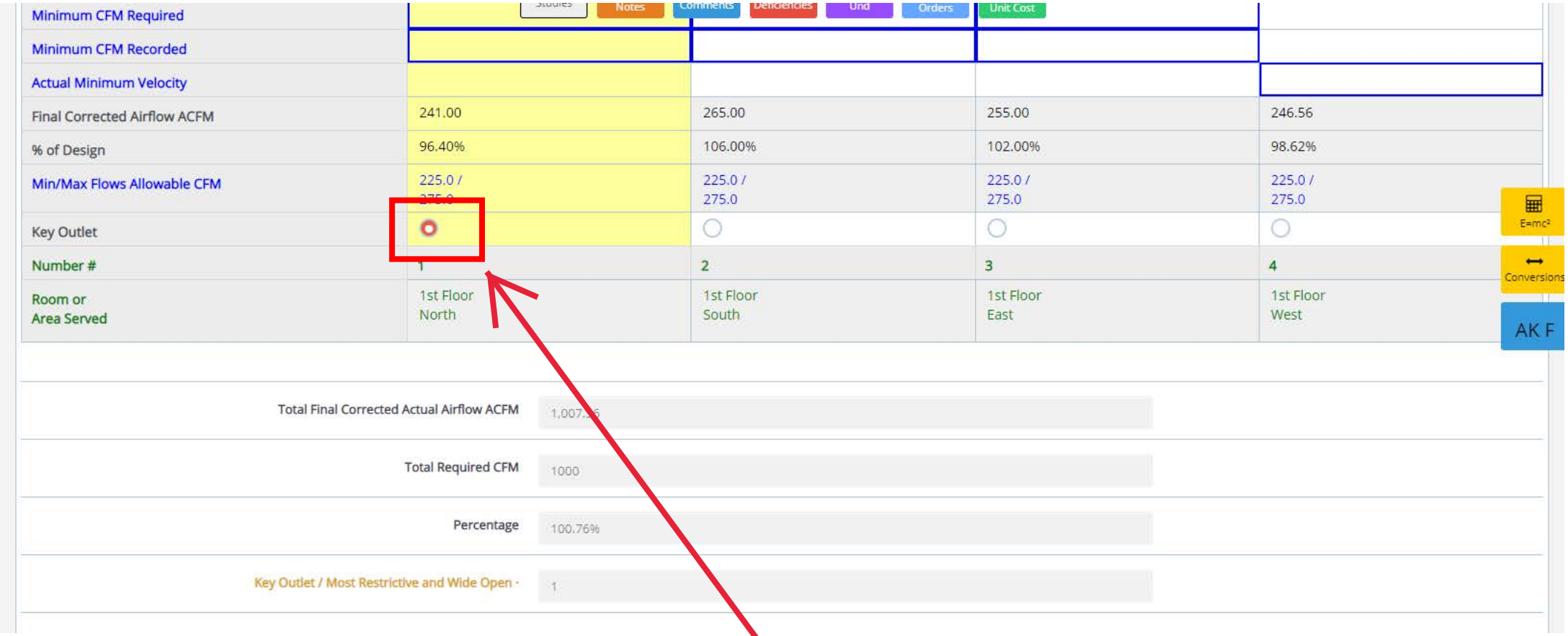
Enter Required Outlet Information

Audit Master PRO



Enter Information

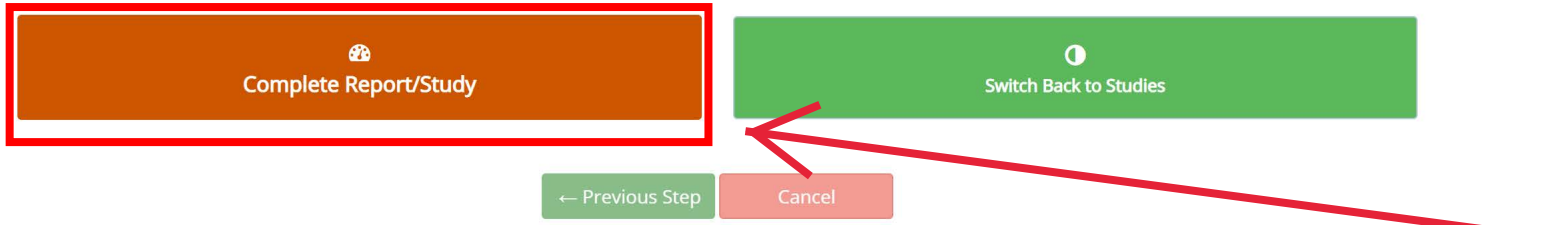
Enter actual outlet readings and information



Minimum CFM Required				
Minimum CFM Recorded				
Actual Minimum Velocity				
Final Corrected Airflow ACFM	241.00	265.00	255.00	246.56
% of Design	96.40%	106.00%	102.00%	98.62%
Min/Max Flows Allowable CFM	225.0 / 275.0	225.0 / 275.0	225.0 / 275.0	225.0 / 275.0
Key Outlet	◉	○	○	○
Number #	1	2	3	4
Room or Area Served	1st Floor North	1st Floor South	1st Floor East	1st Floor West

Total Final Corrected Actual Airflow ACFM	1,007.56
Total Required CFM	1000
Percentage	100.76%
Key Outlet / Most Restrictive and Wide Open ·	1

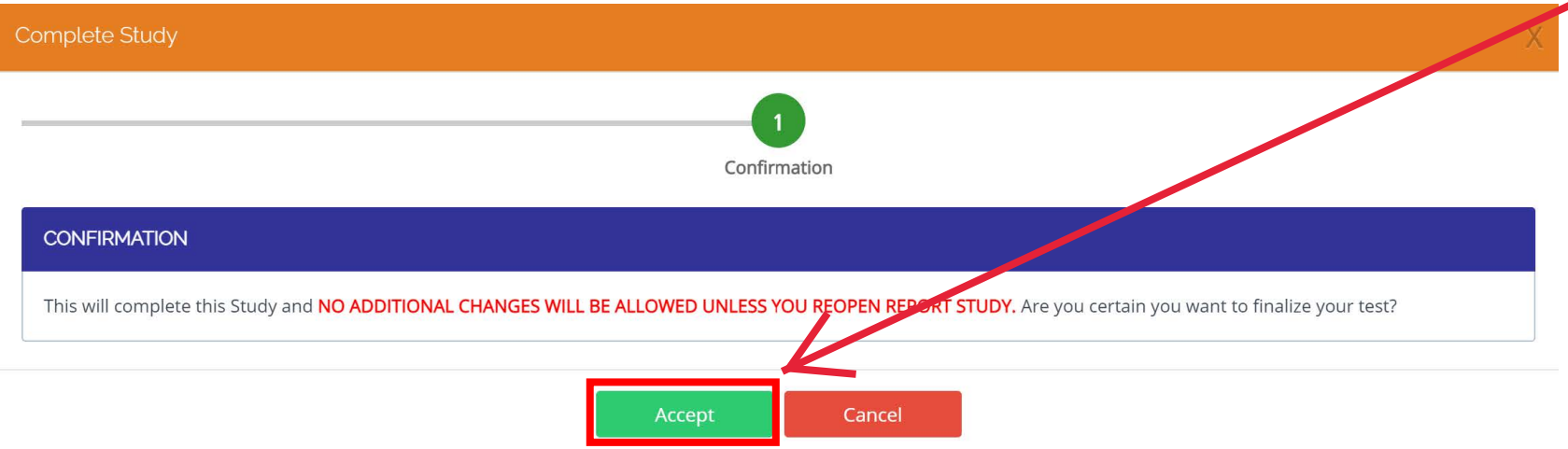
Note: A key outlet must be selected for every system.



After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation



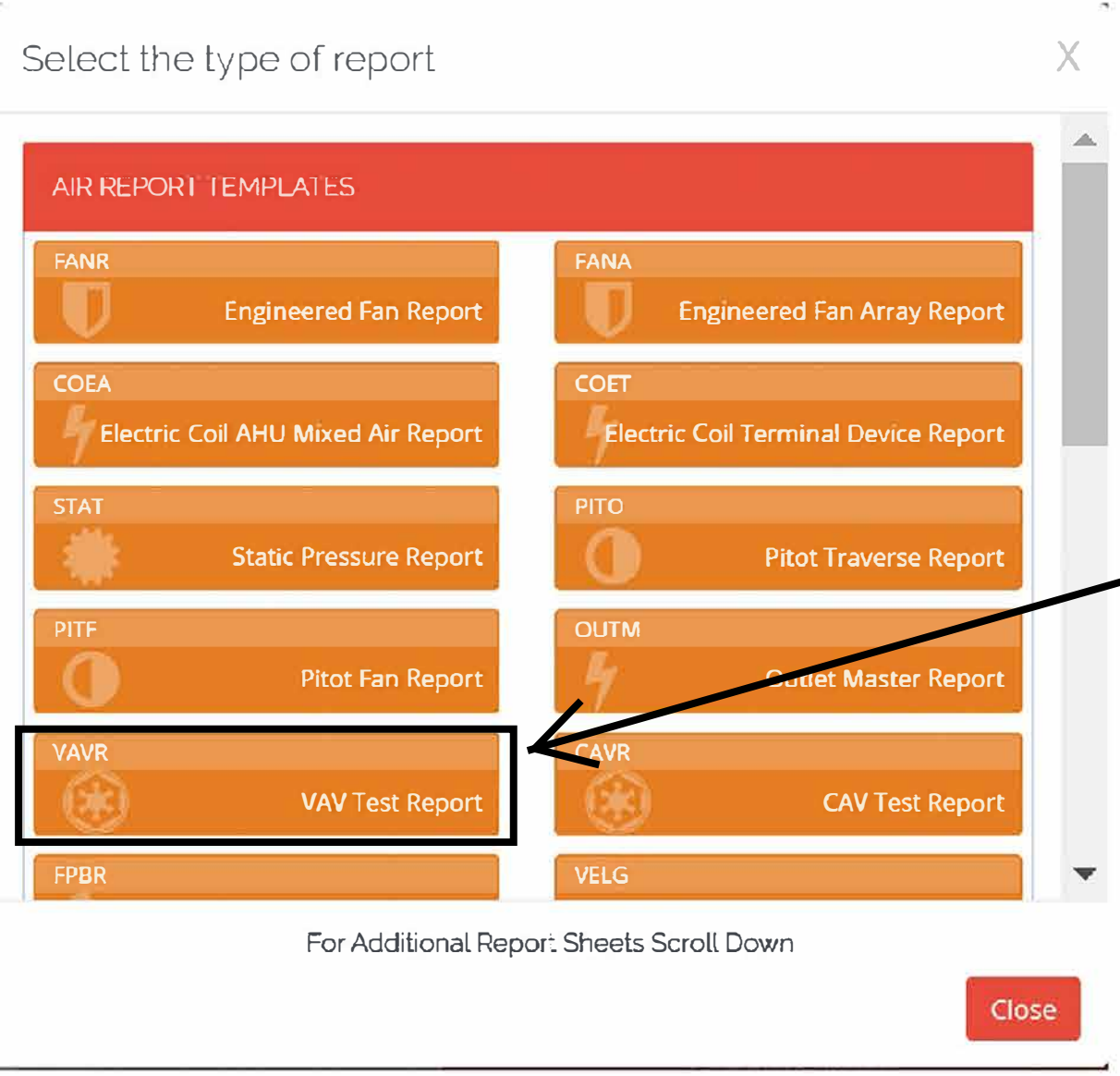
Audit Master Pro Training

VAV Test Report

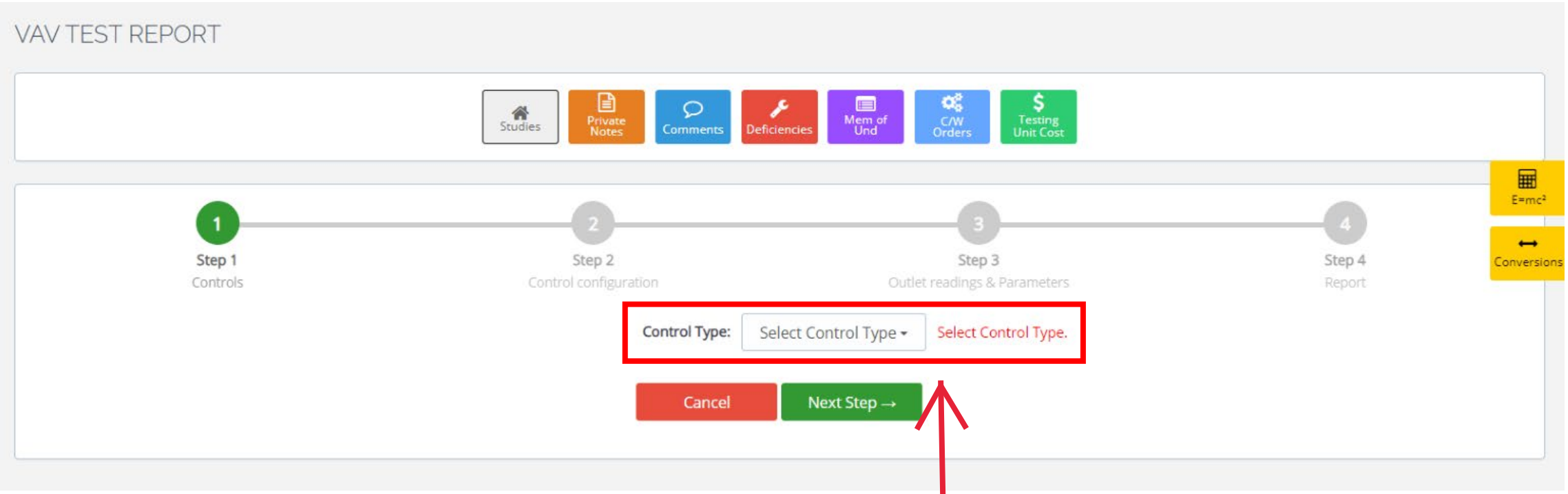
This tutorial will act as a guide to create and input all data required for the selected air study.

Go to Index

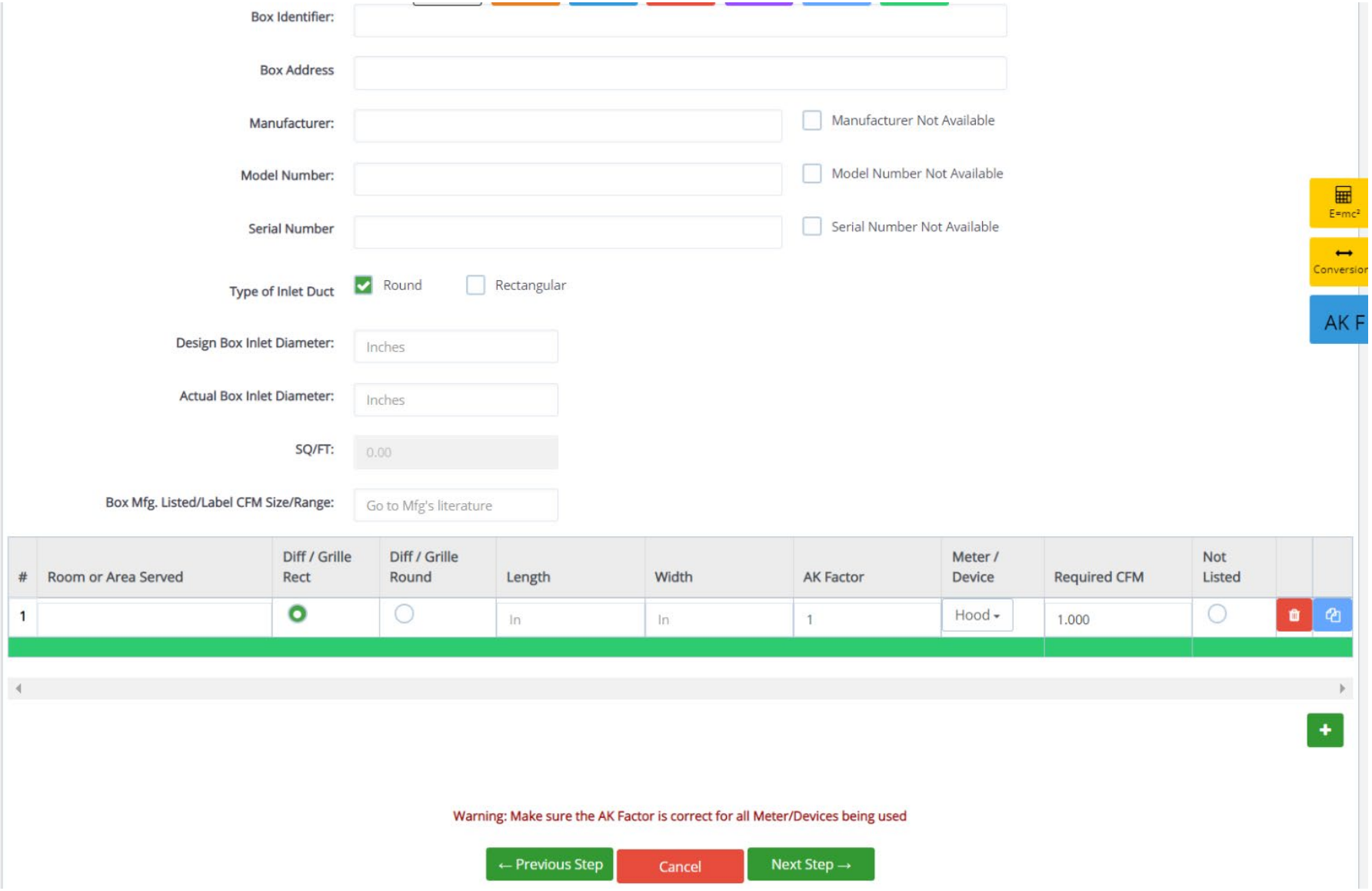
Audit Master PRO



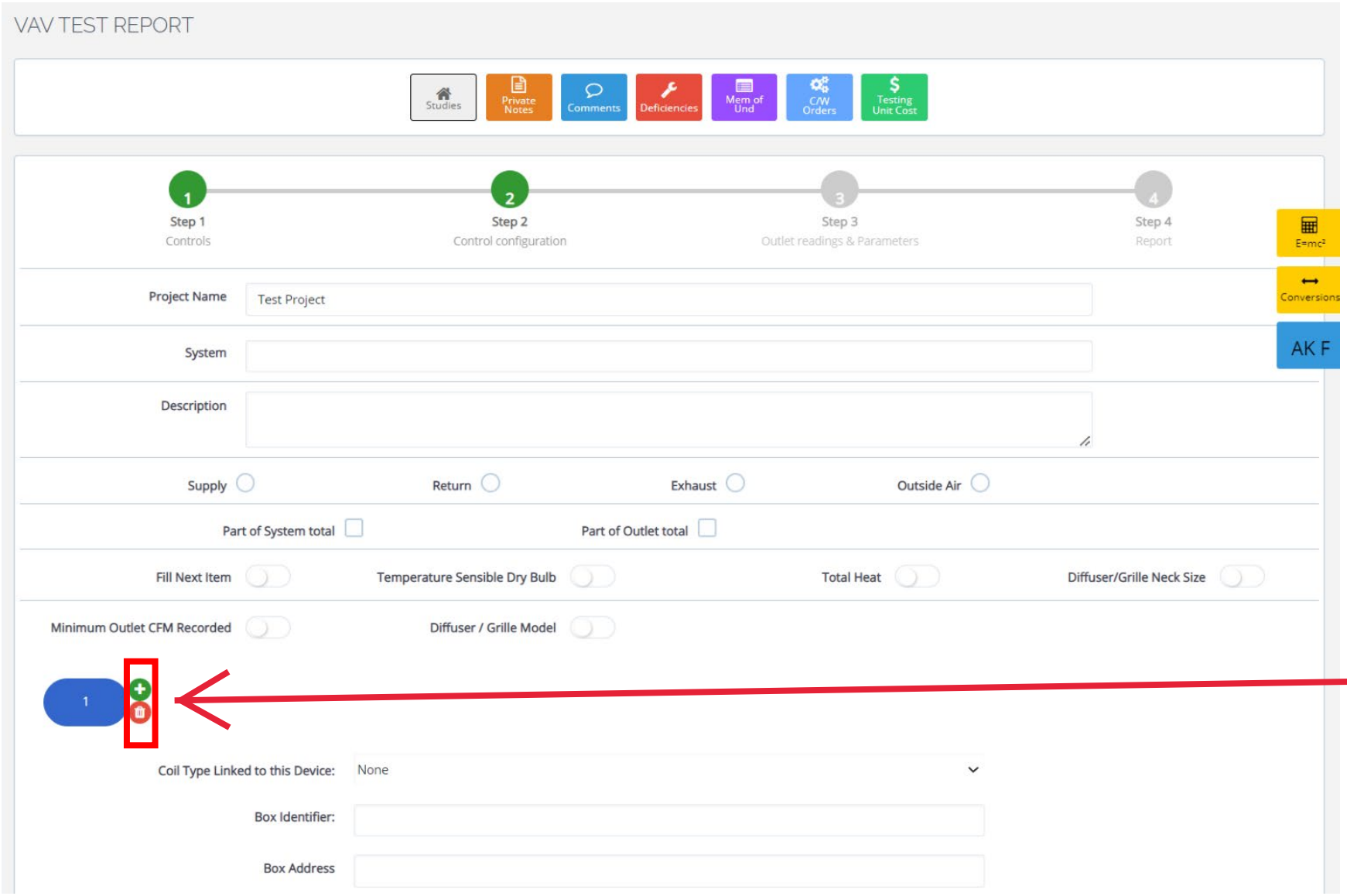
Click "VAV Test Report"



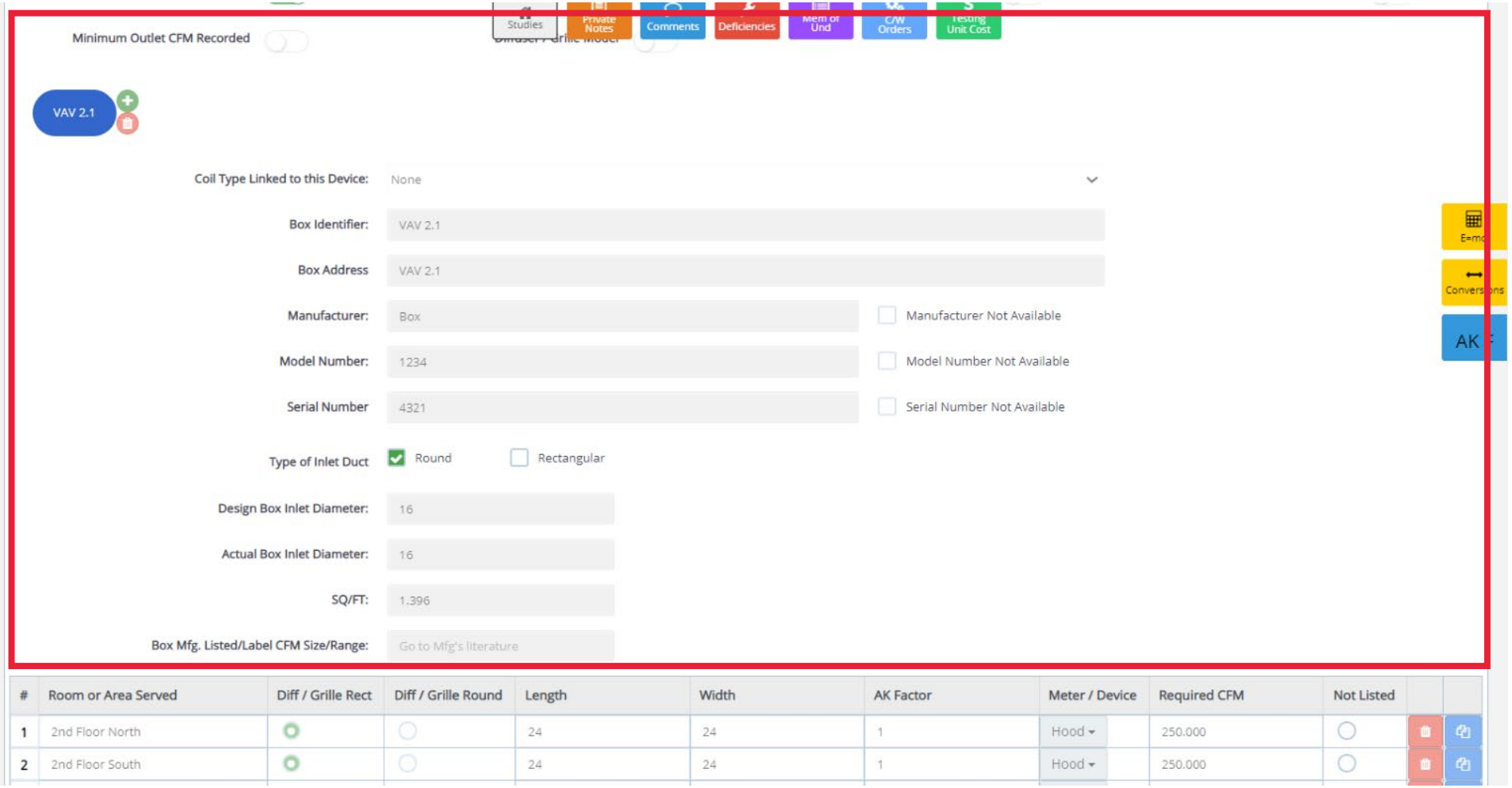
Select Control Type



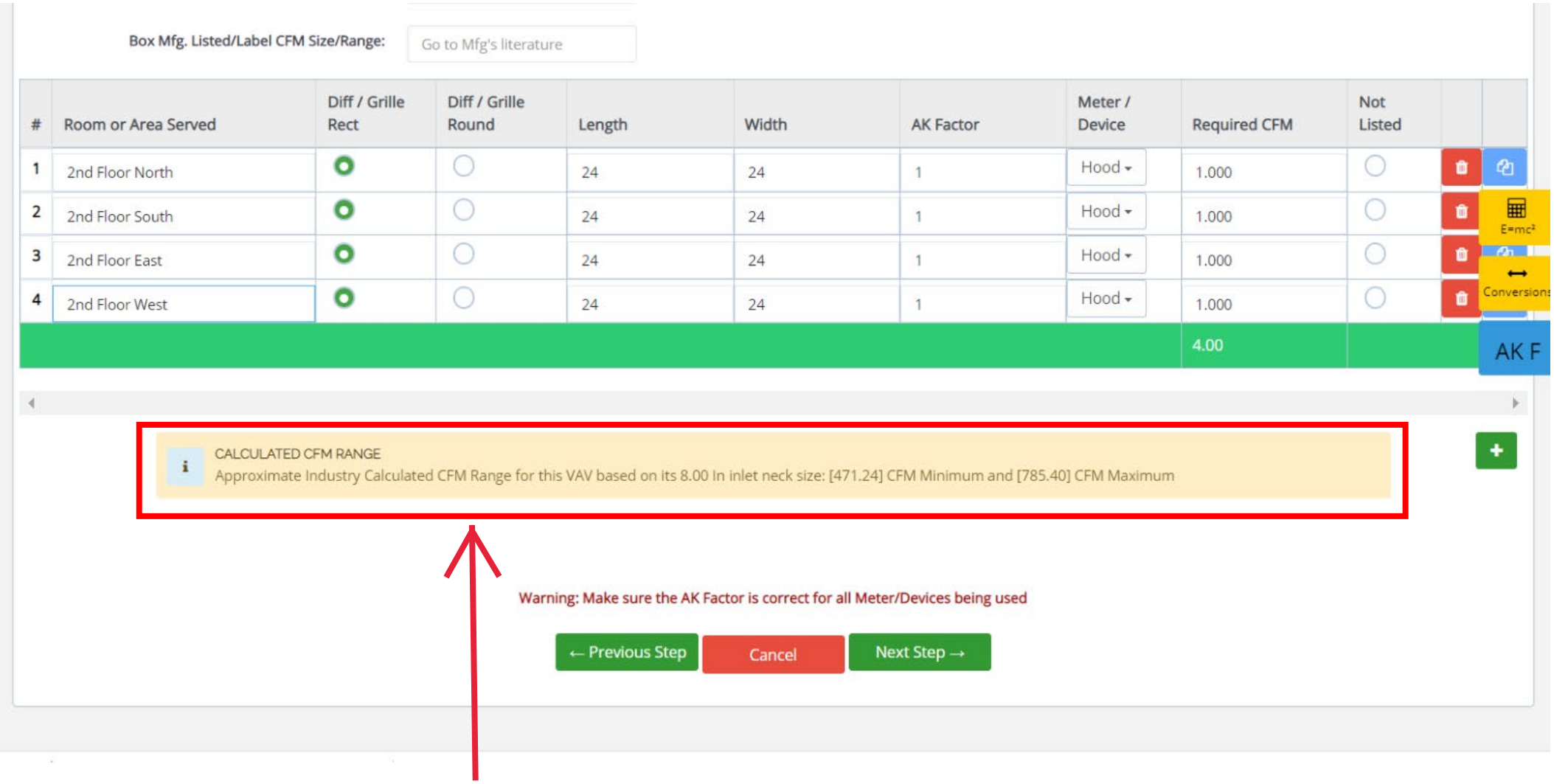
Enter VAV Data



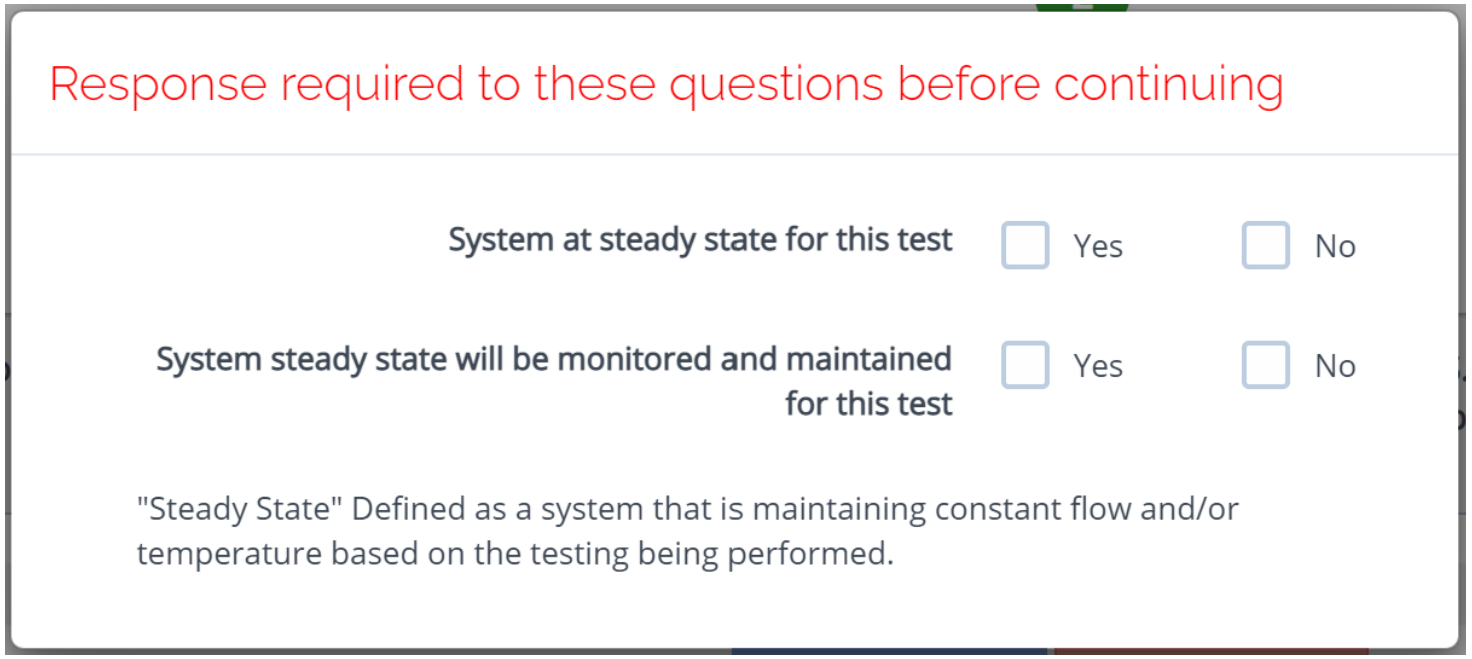
Note: When creating a VAV, you can select "delete" to remove any VAVs or "duplicate" to copy VAVs.



Initial VAV data is locked and protected when entering actual field data.

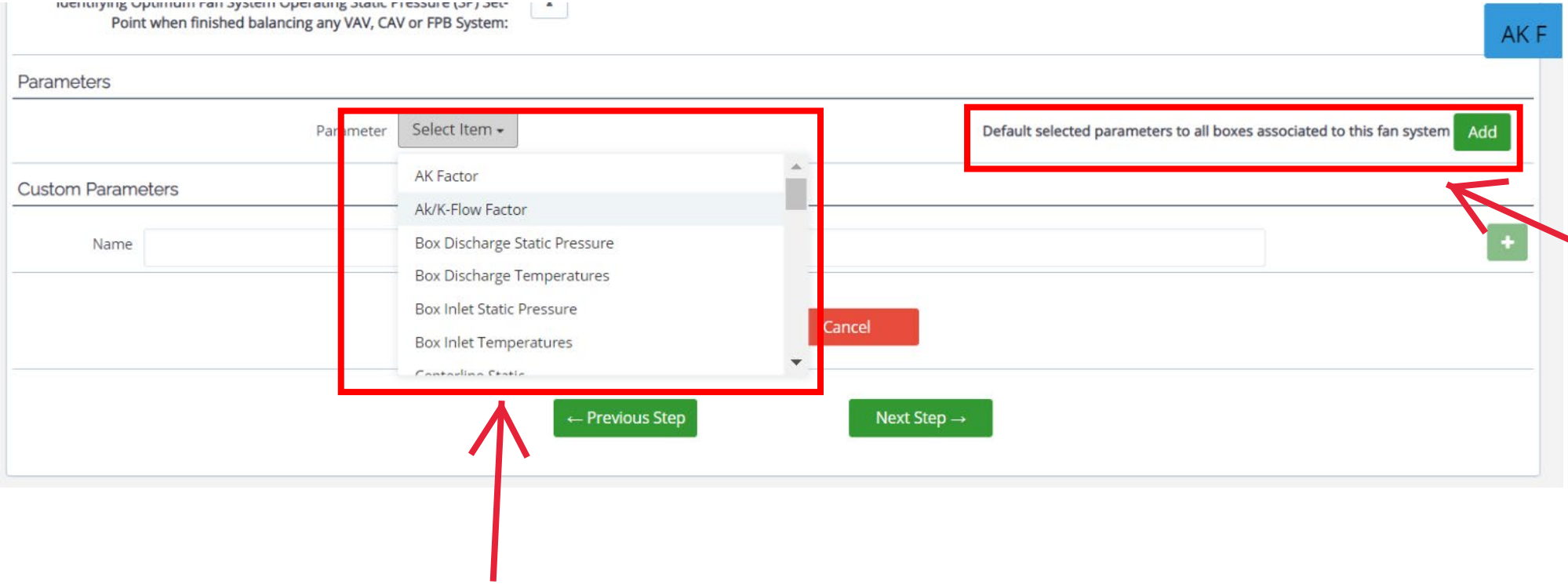


The stated neck size will automatically calculate a velocity range that the VAV can provide in terms of ideal CFM.



Throughout the AMP software you will be required to verify that the system being tested is at steady state.

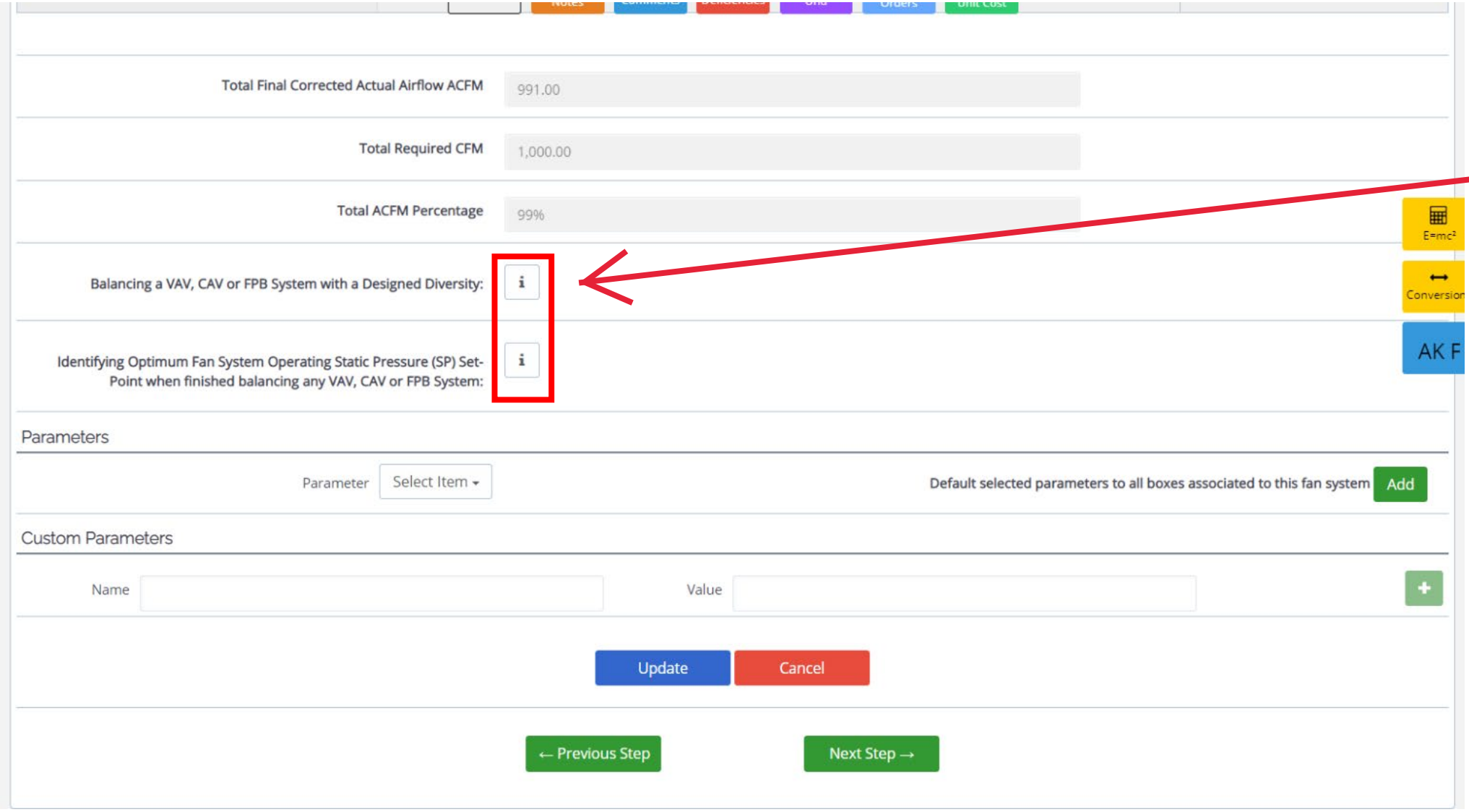
Steady state is critical to testing as it ensures that any readings or calibrations are repeatable.



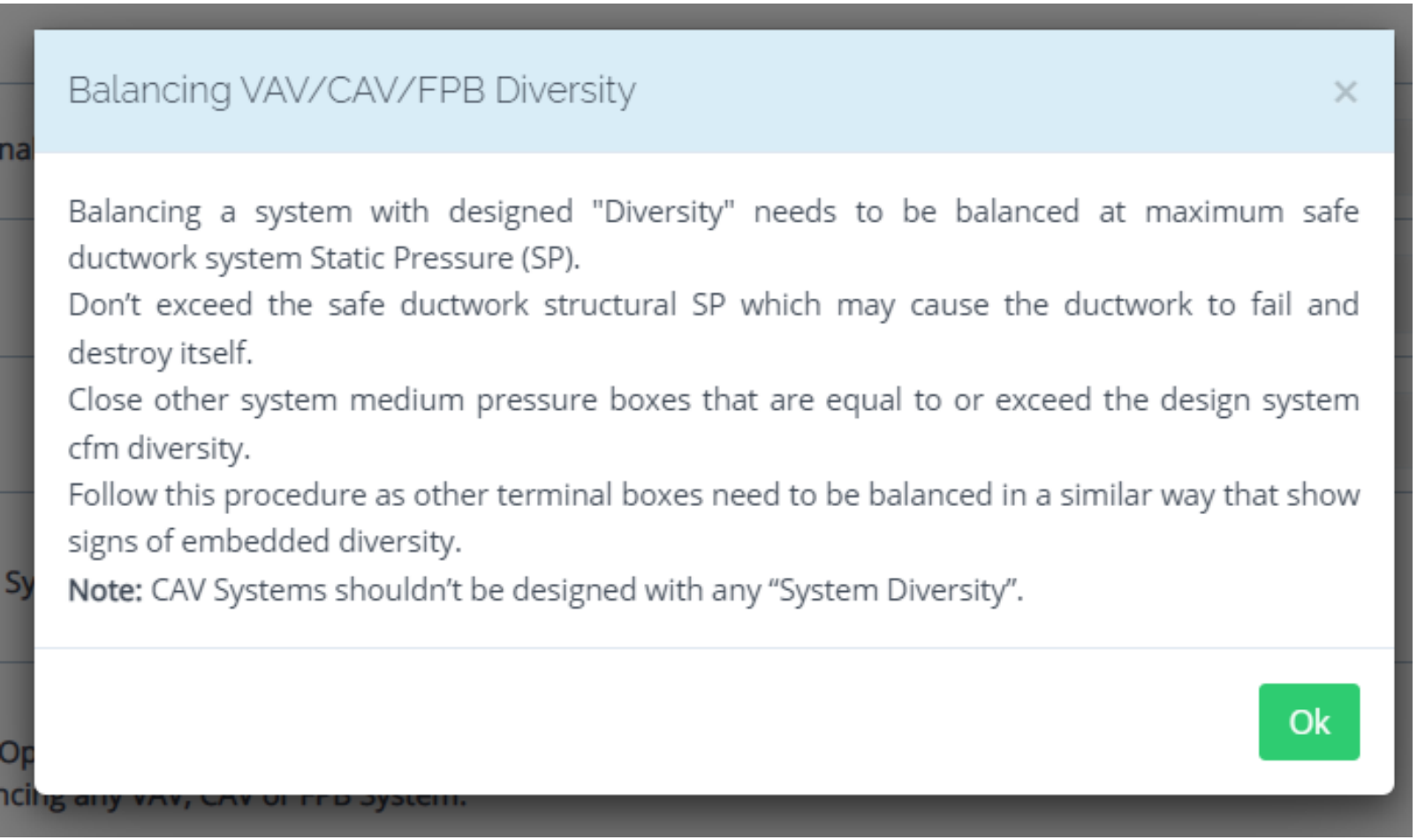
You are able to save the parameters on a VAV as the default.

This will be the default standard for all subsequent VAVs.

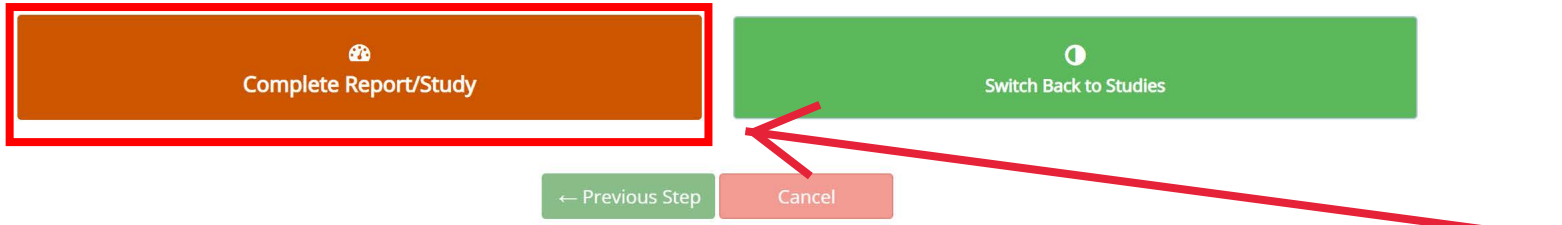
Parameters and Custom Parameters can be added based on project design requirements.



The next page will explain the information icon.



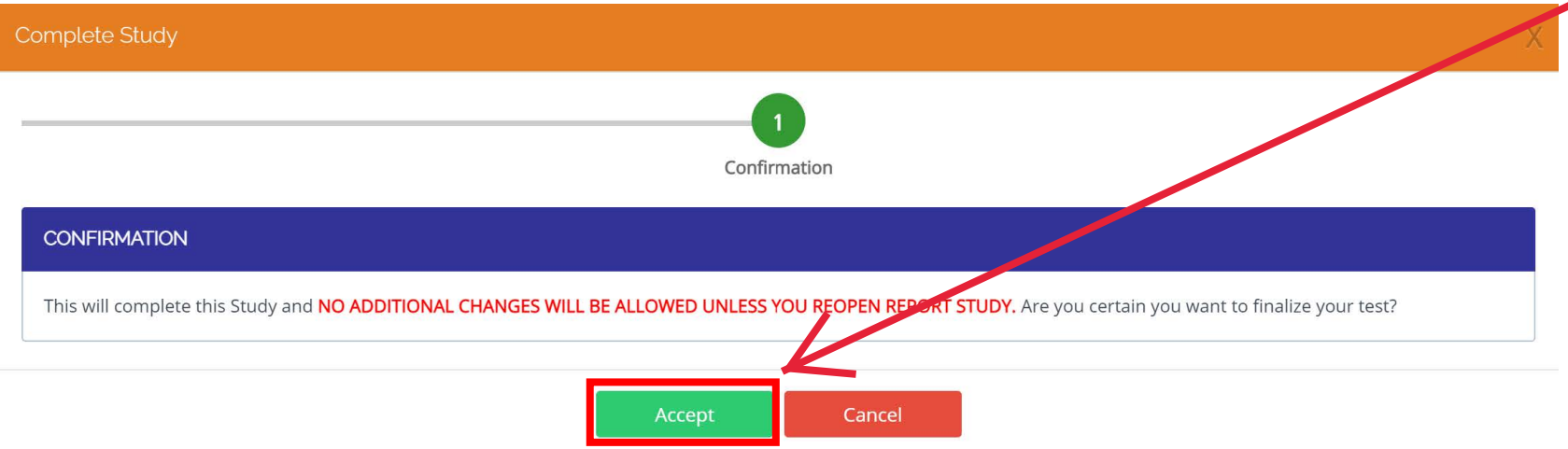
Informational assistance icon



After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation



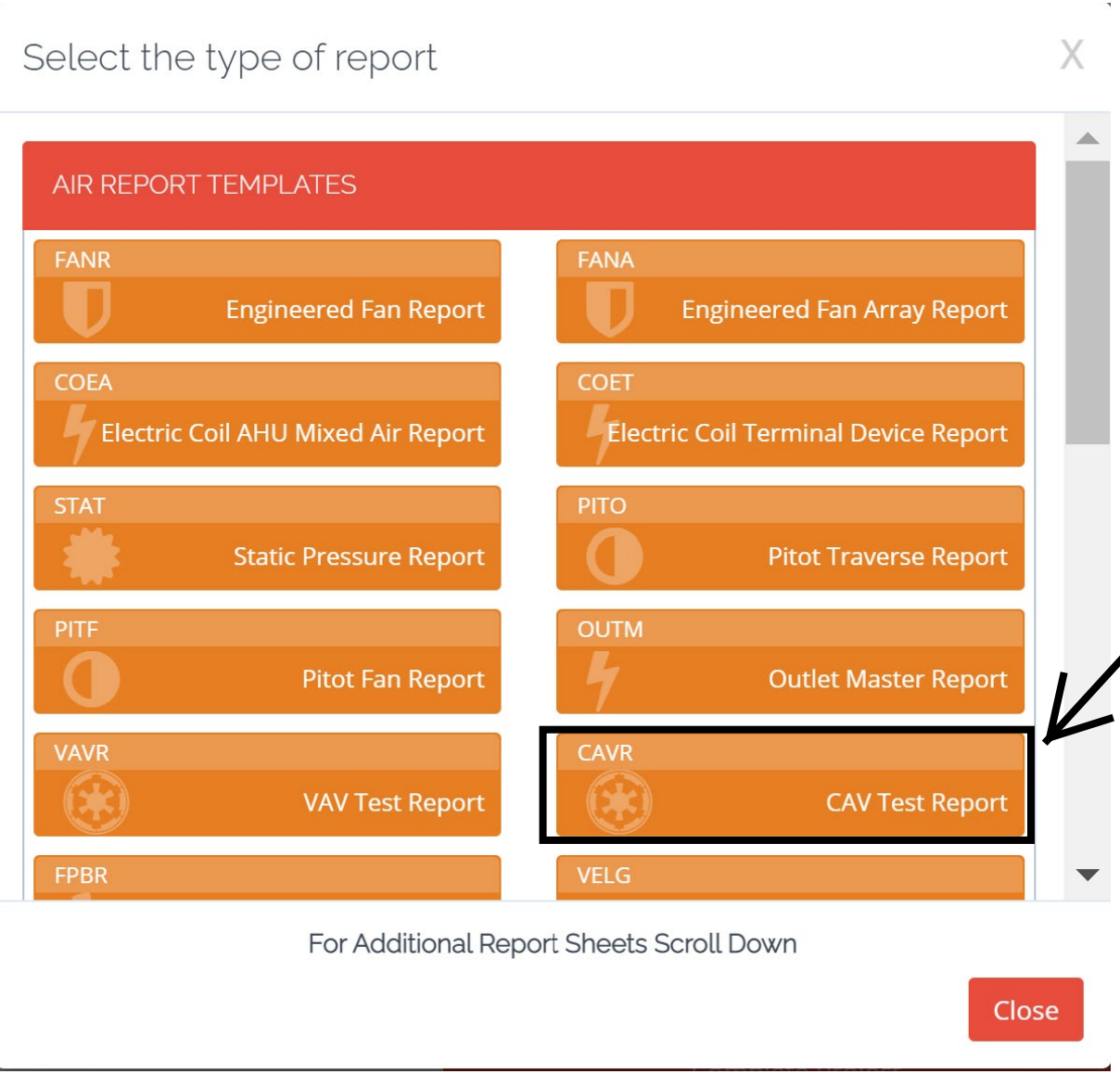
Audit Master Pro Training

CAV Test Report

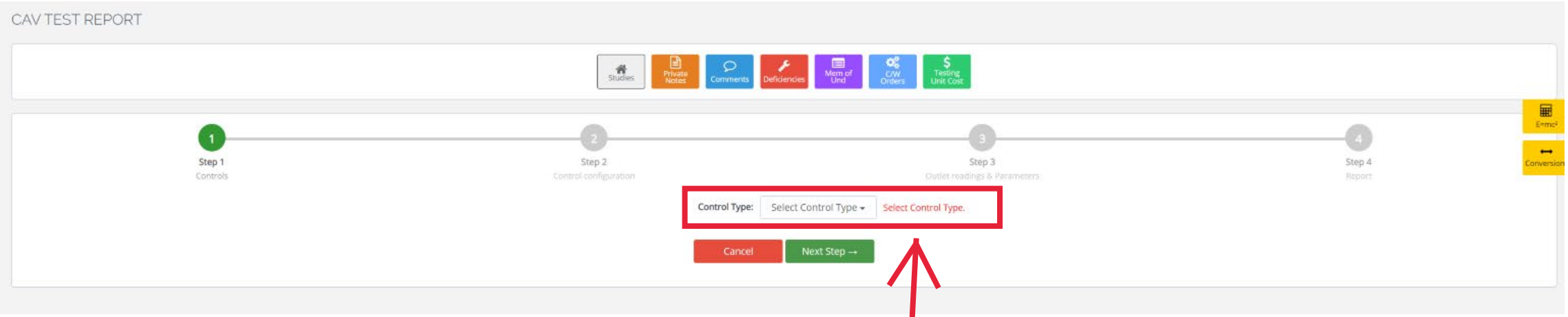
This tutorial will act as a guide to create and input all data required for the selected air study.

Go to Index

Audit Master PRO

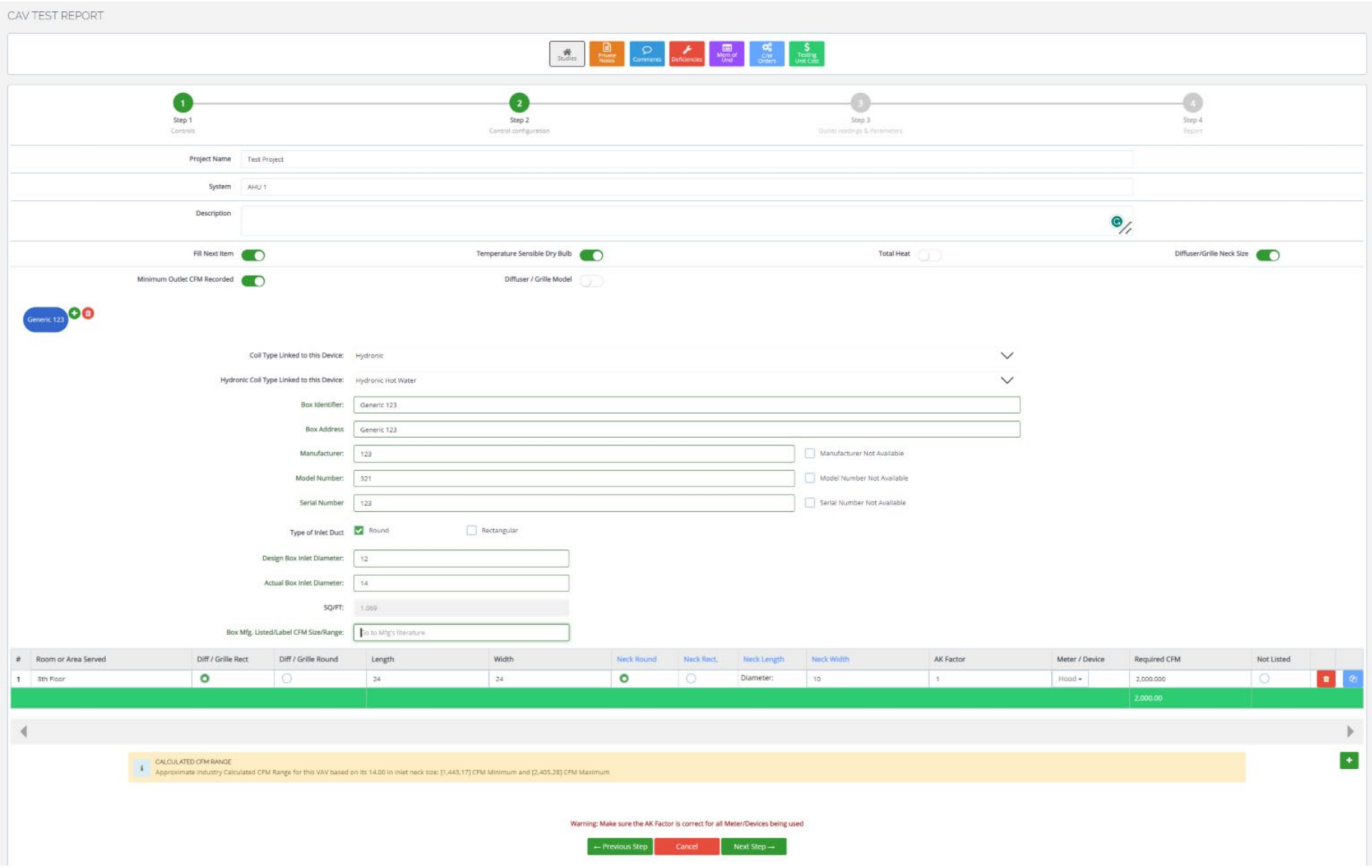


Click "CAV Test Report"

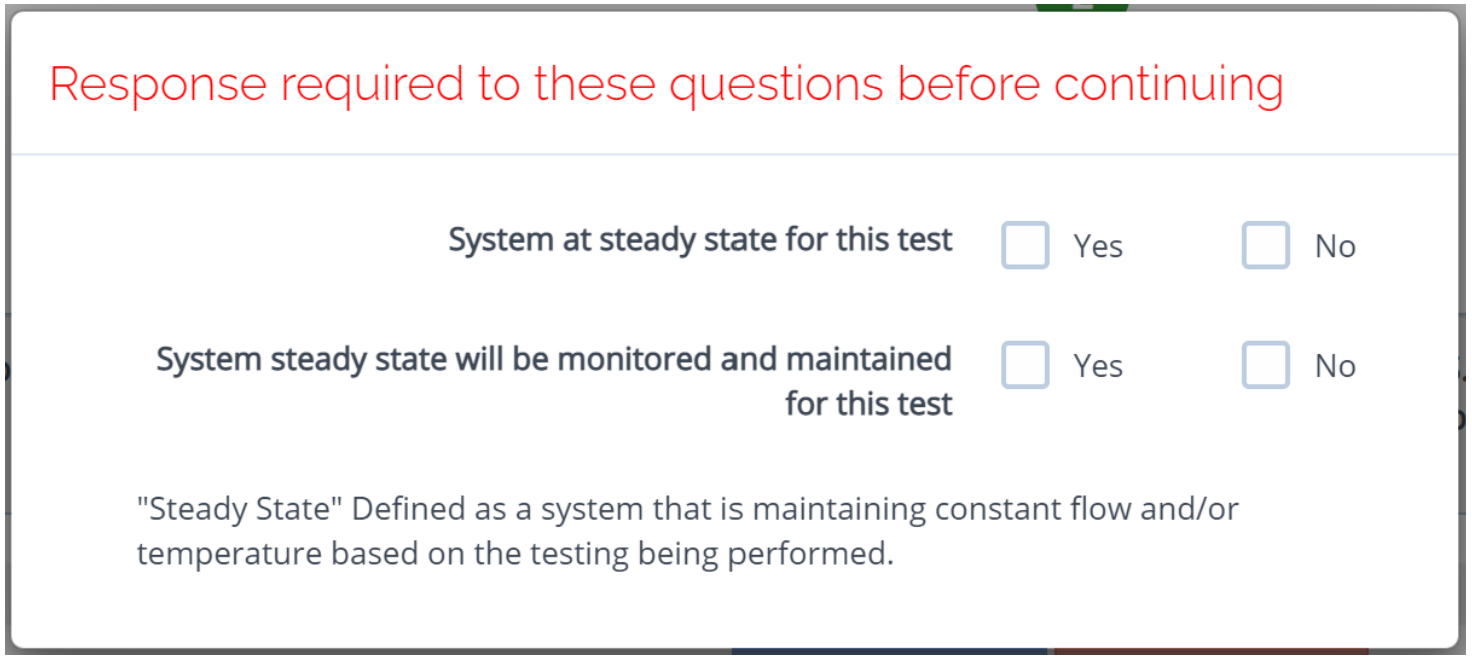


Select Control Type

Audit Master PRO



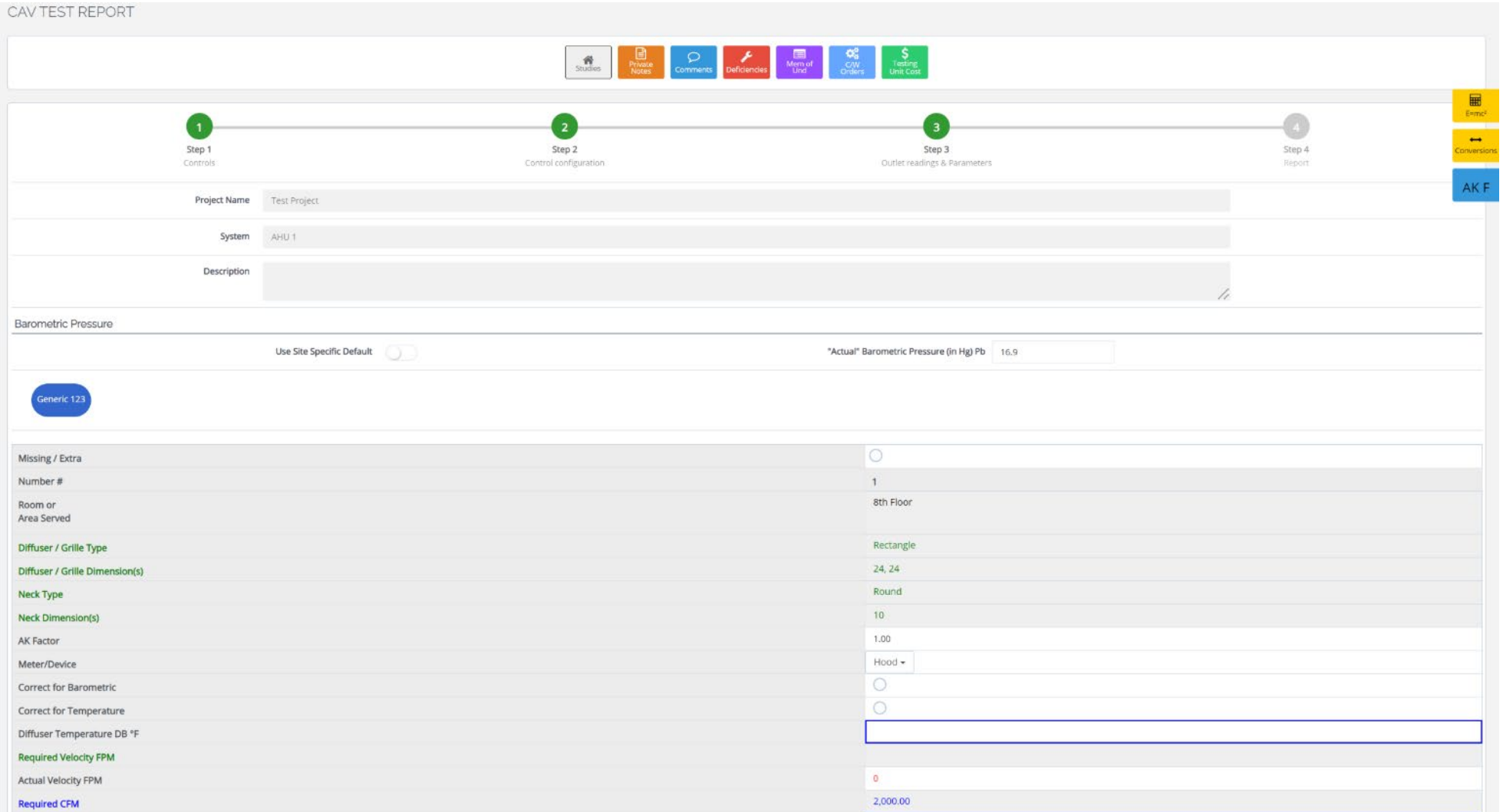
Enter CAV Information



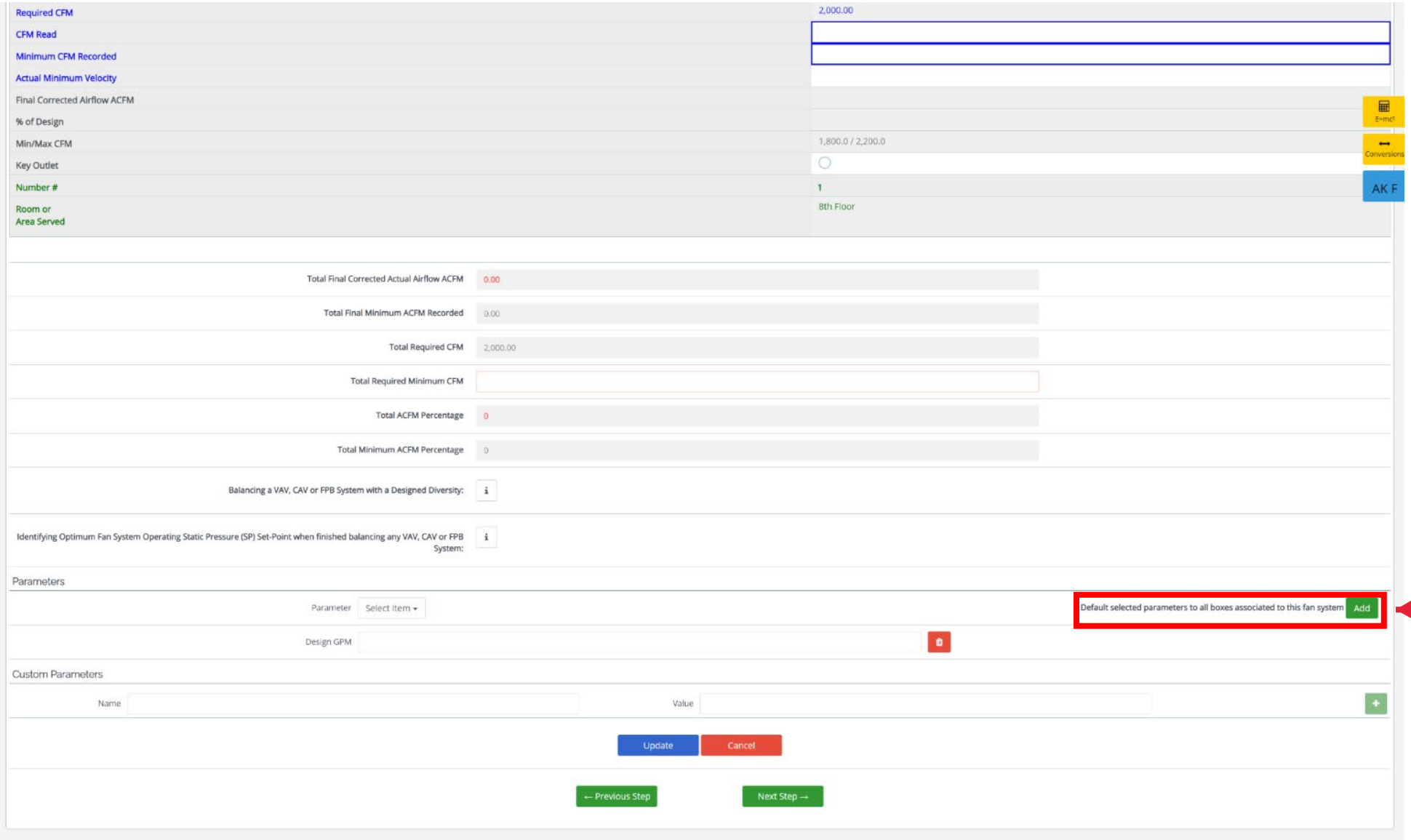
Throughout the AMP software you will be required to verify that the system being tested is at steady state.

Steady state is critical to testing as it ensures that any readings or calibrations are repeatable.

Audit Master PRO



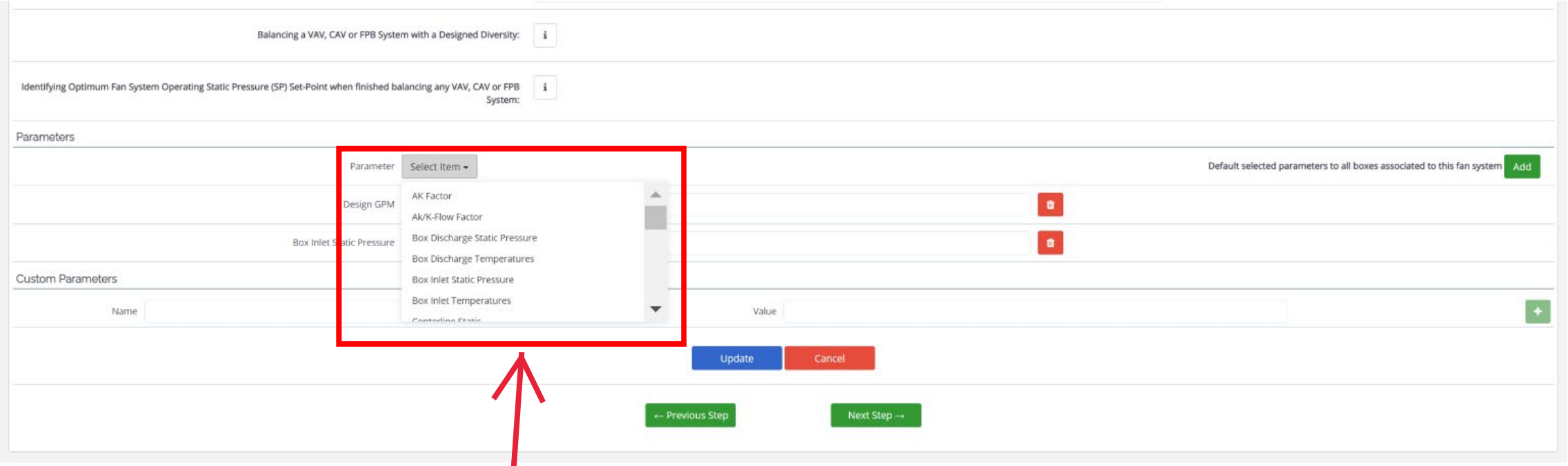
Enter Actual Data



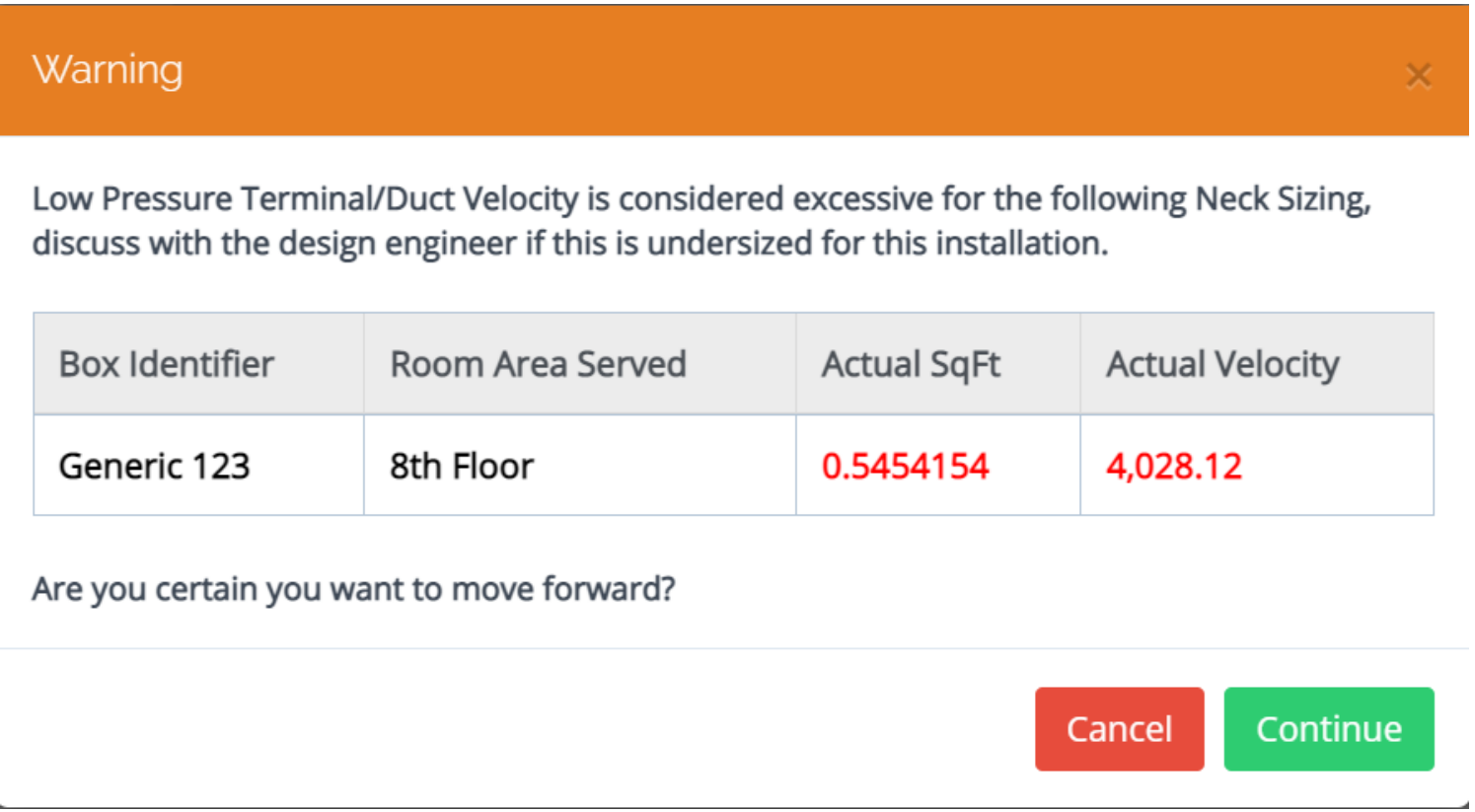
Enter Actual Data Continued

You are able to save the parameters on a CAV as the default.

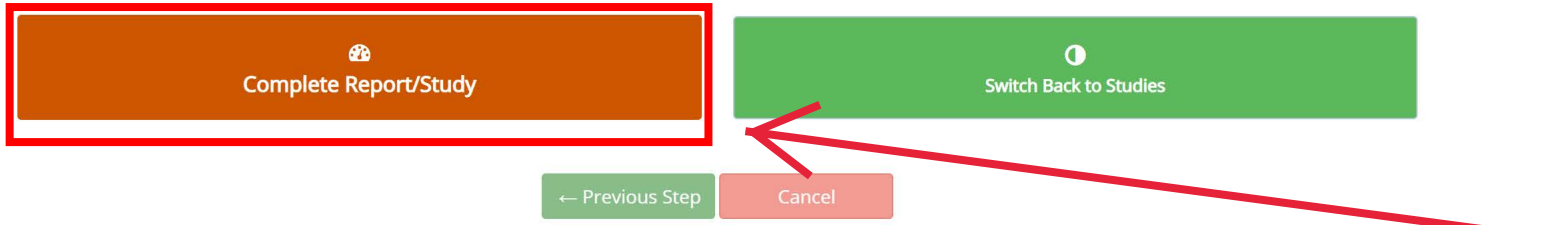
This will be the default standard for all subsequent CAVs.



Select Parameters from the drop down menu.



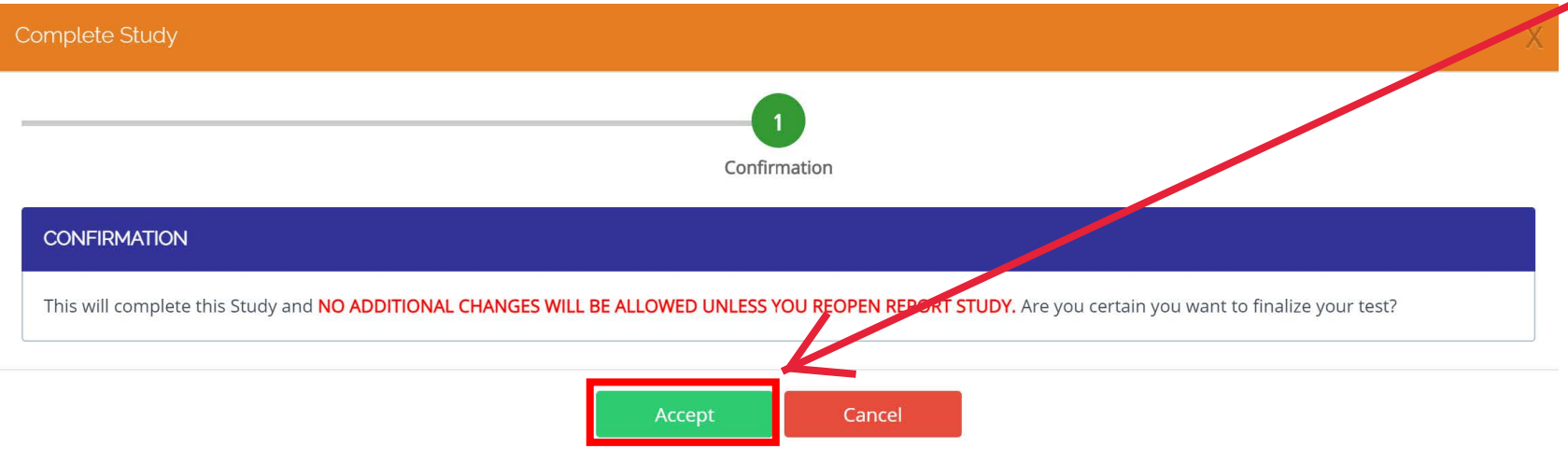
A warning will appear if the calculated velocity exceeds industry standards for the neck size that is stated to be installed.



After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation



Audit Master Pro Training

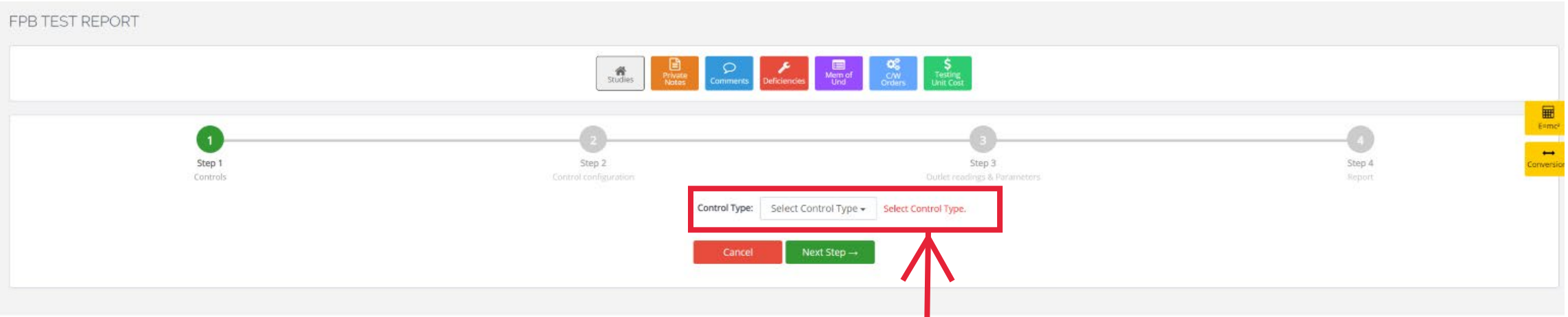
FPB Test Report

This tutorial will act as a guide to create and input all data required for the selected air study.

Go to Index

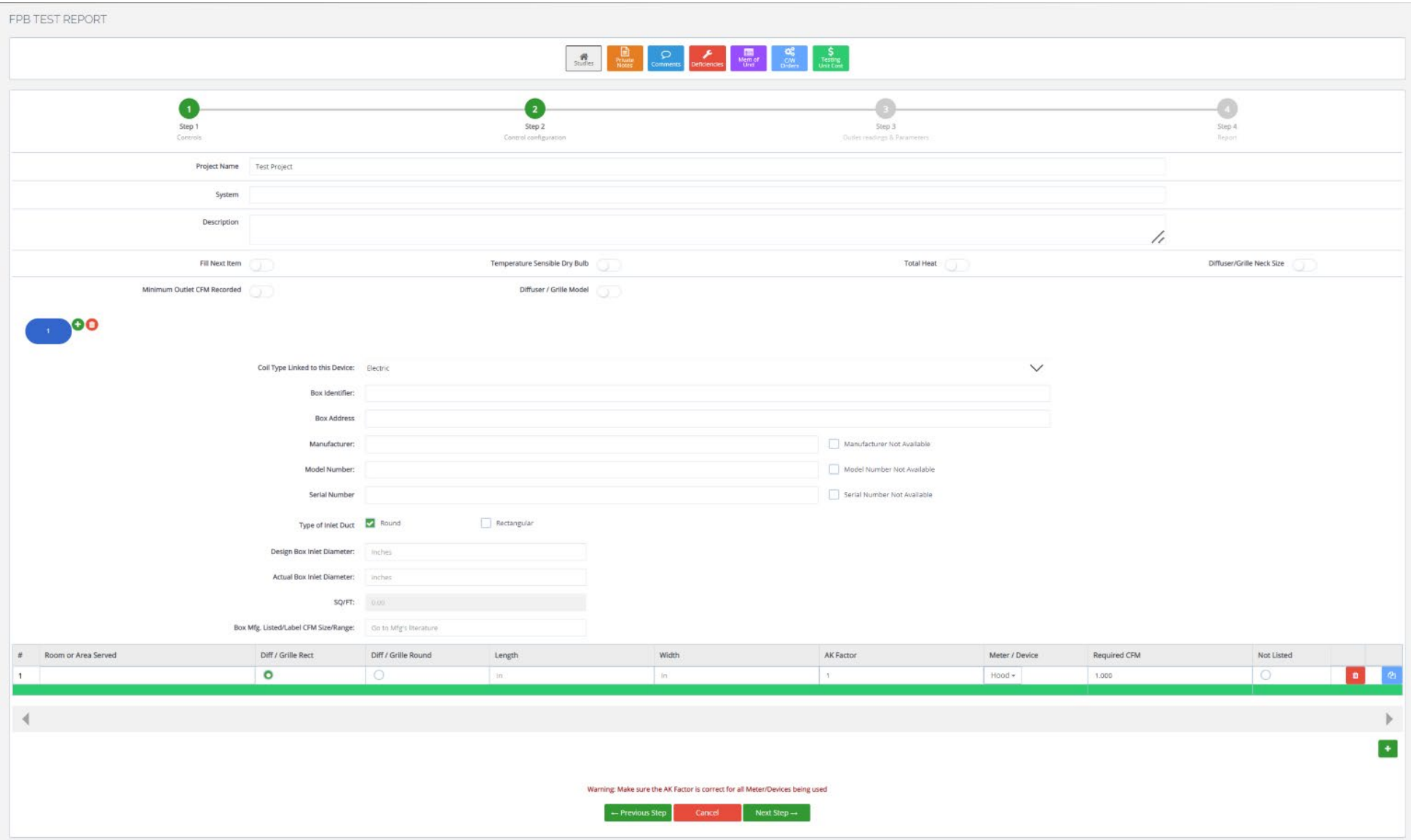
Audit Master PRO

Click "FPB Test Report"

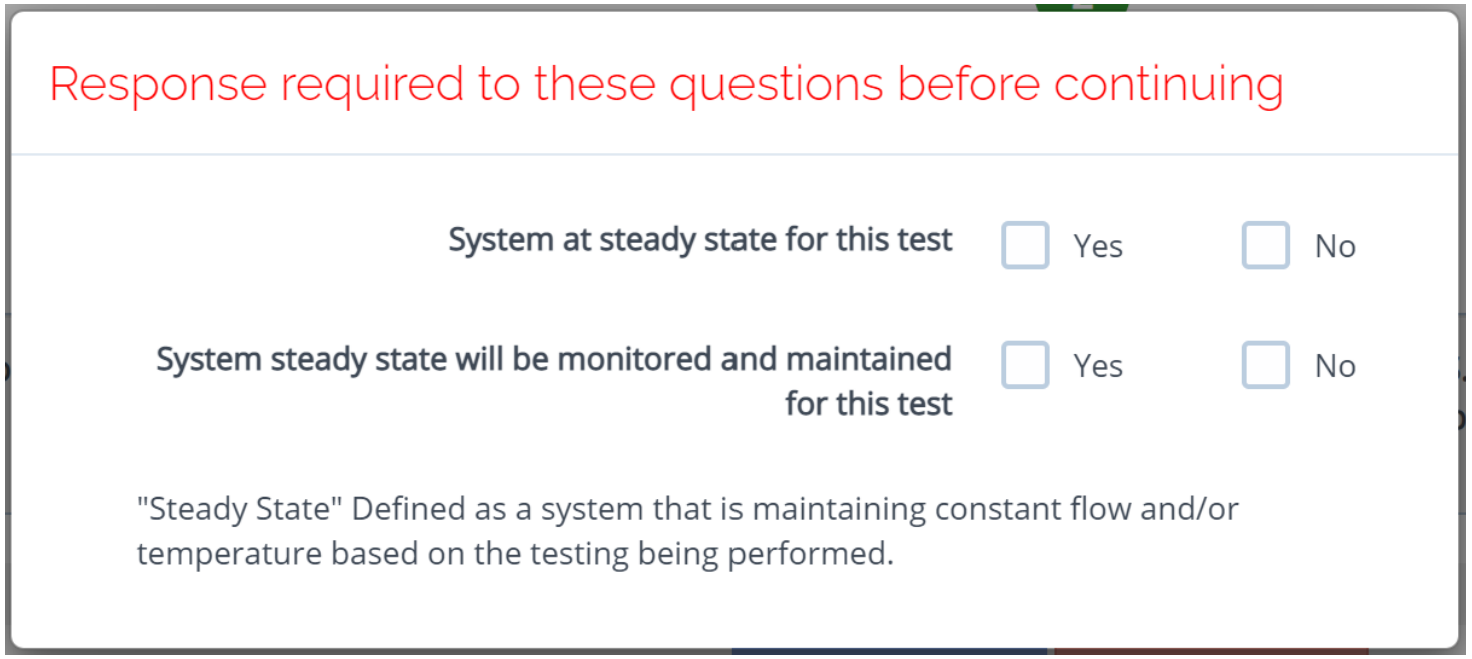


Select Control Type

Audit Master PRO



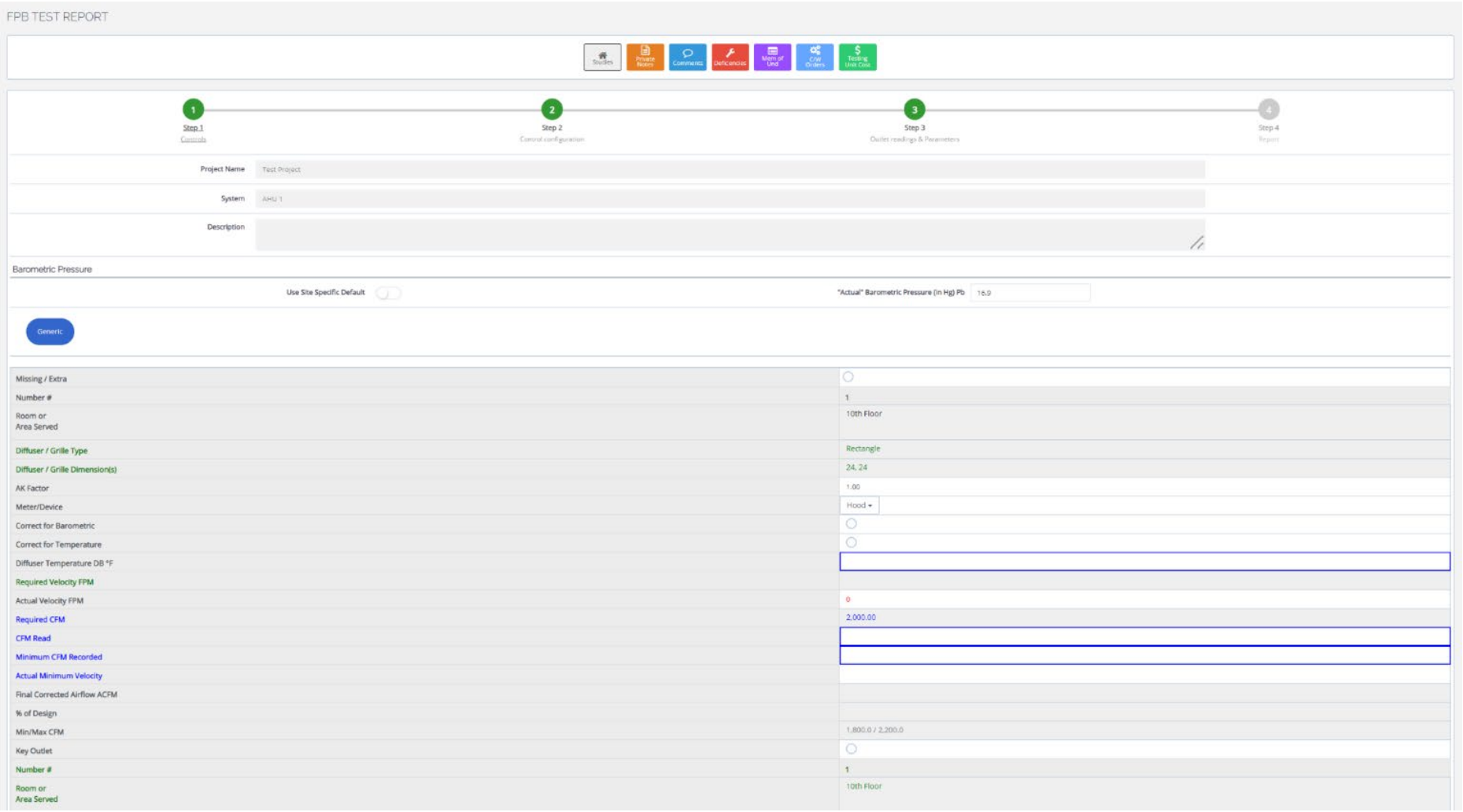
Enter FPB Information



Throughout the AMP software you will be required to verify that the system being tested is at steady state.

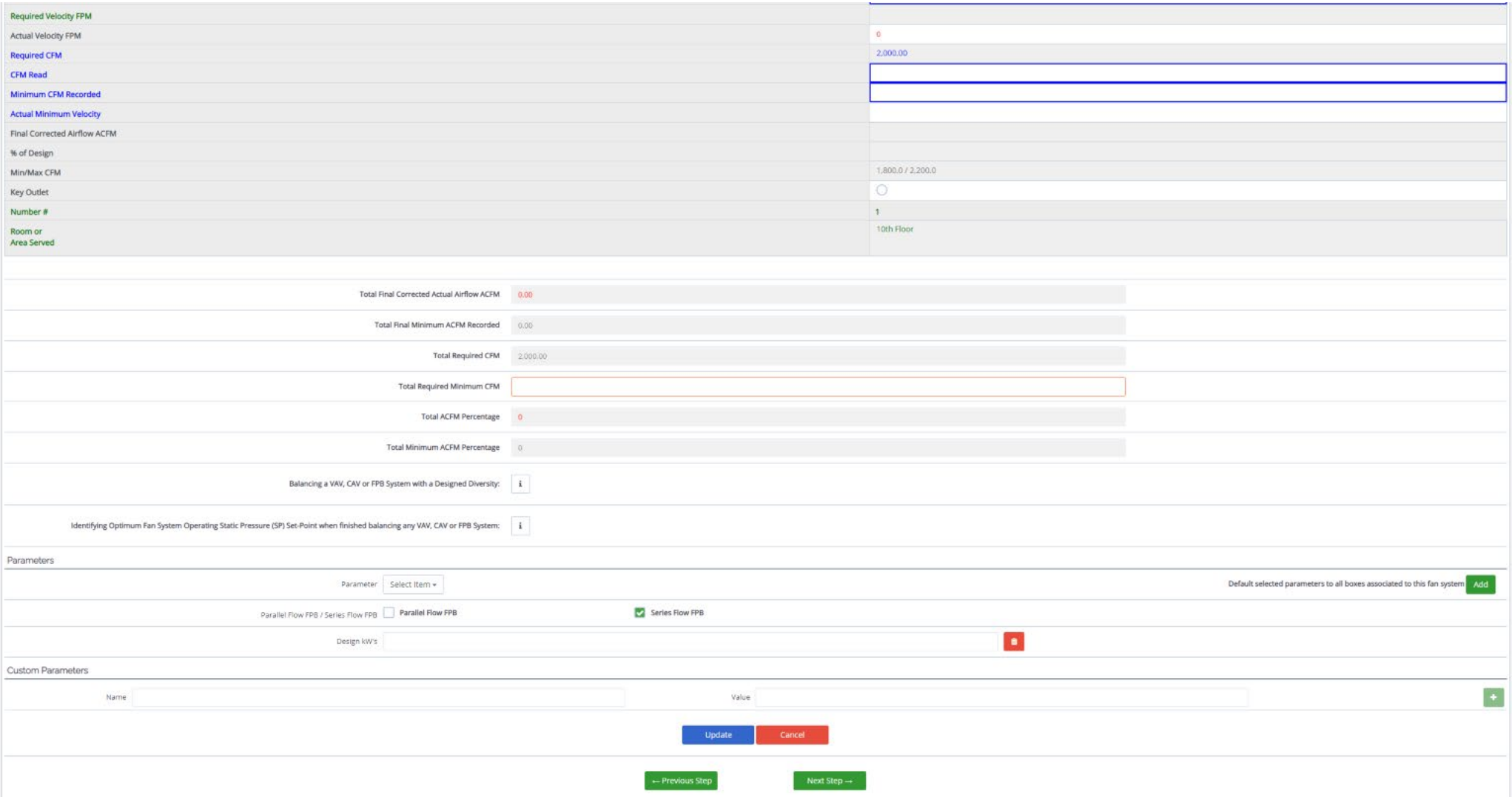
Steady state is critical to testing as it ensures that any readings or calibrations are repeatable.

Audit Master PRO™

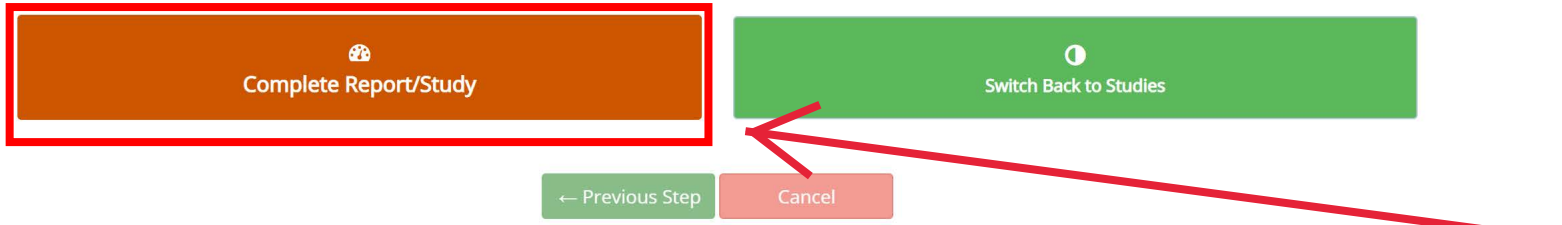


Enter Actual Data

Audit Master PRO™



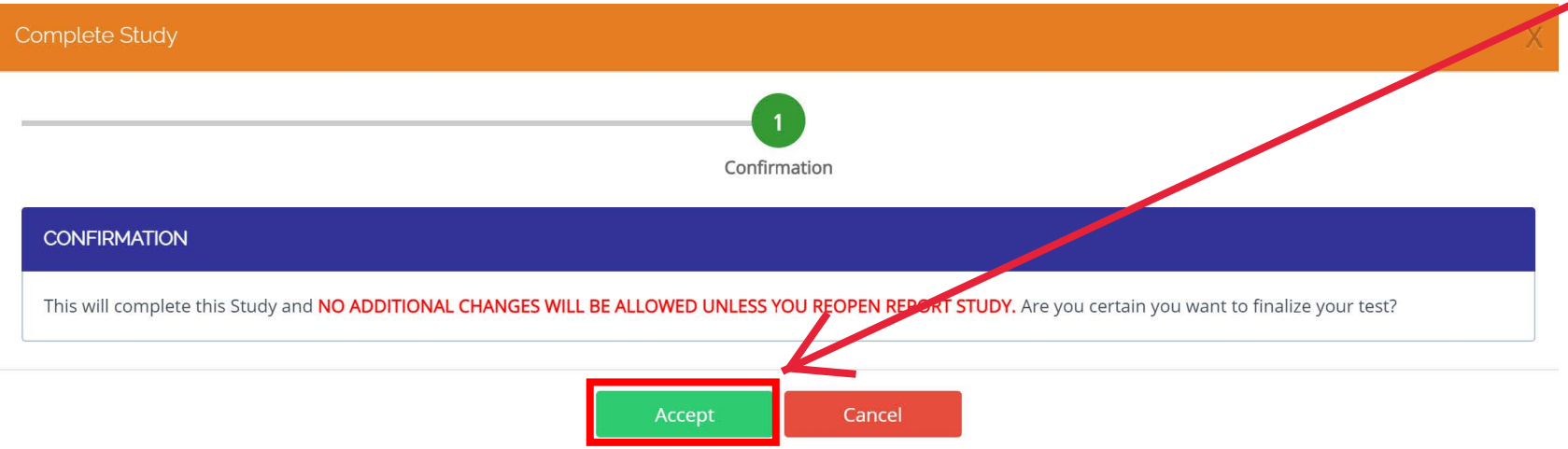
Enter Actual Data Continued



After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation



Audit Master Pro Training

Velgrid Test Report

This tutorial will act as a guide to create and input all data required for the selected air study.

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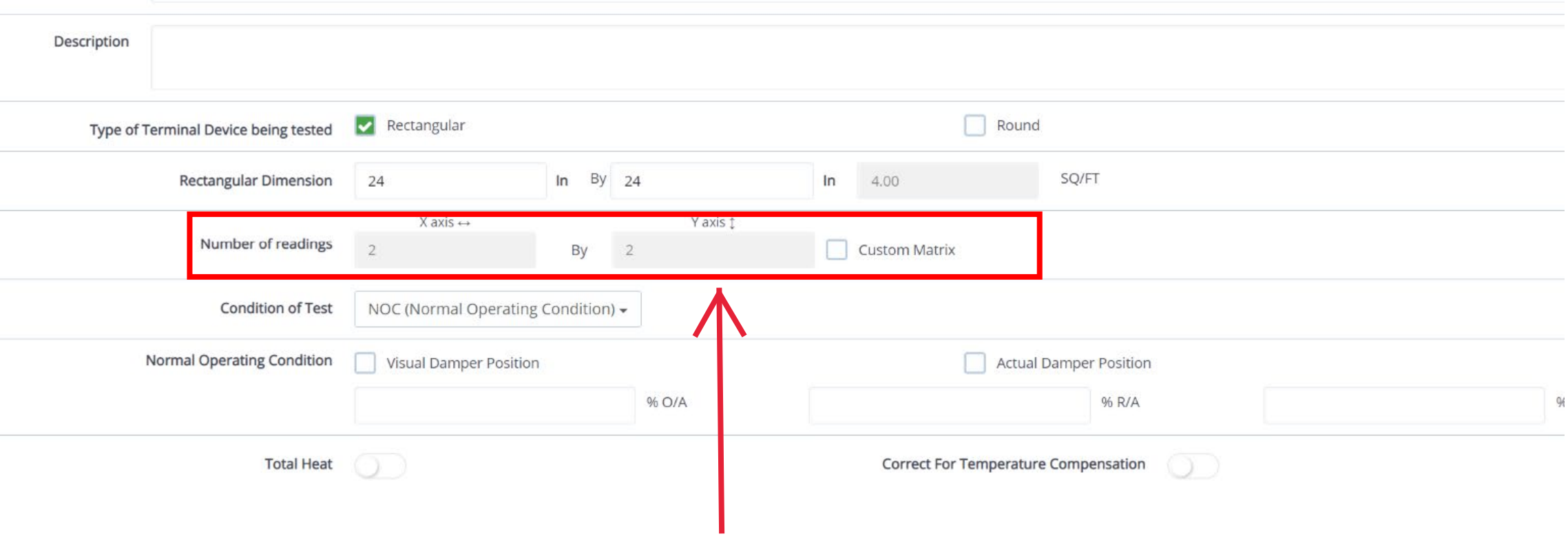
Audit Master PRO

Click "Velgrid Report"

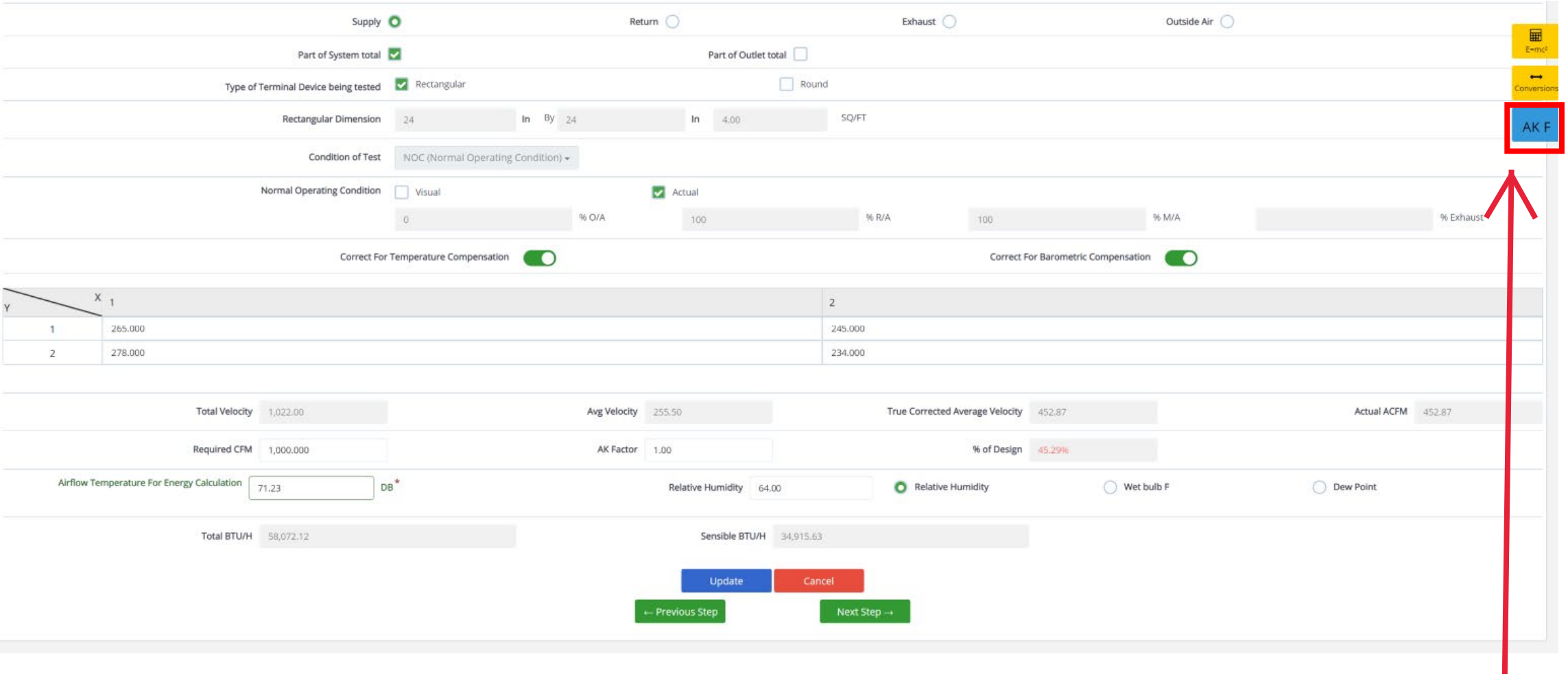
Enter Velgrid Information



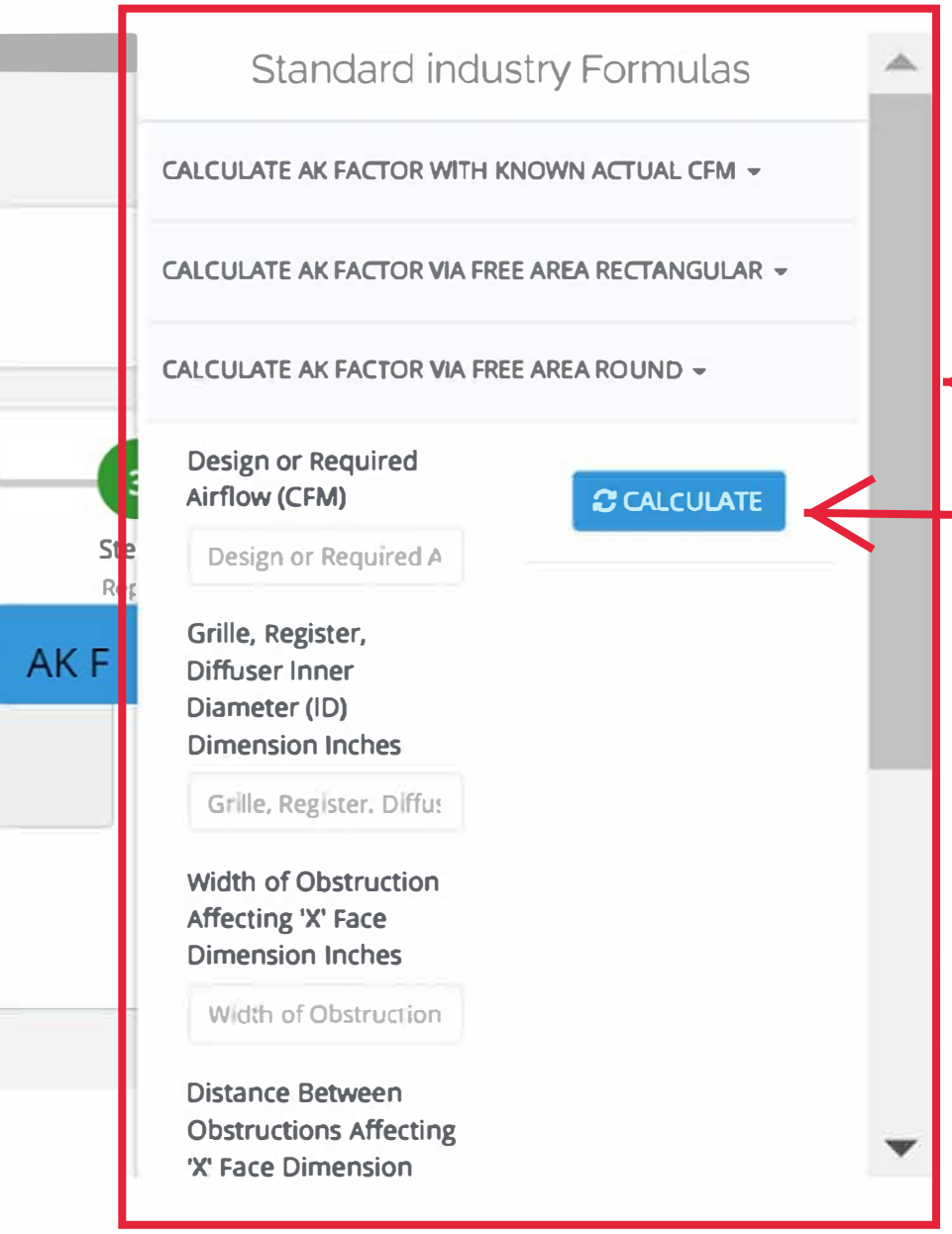
The number of readings needed will automatically populate.

If a different number of readings is needed, you may select "Custom Matrix" and enter the number of "X" and "Y" axis readings required.

Enter Velgrid readings and additional data



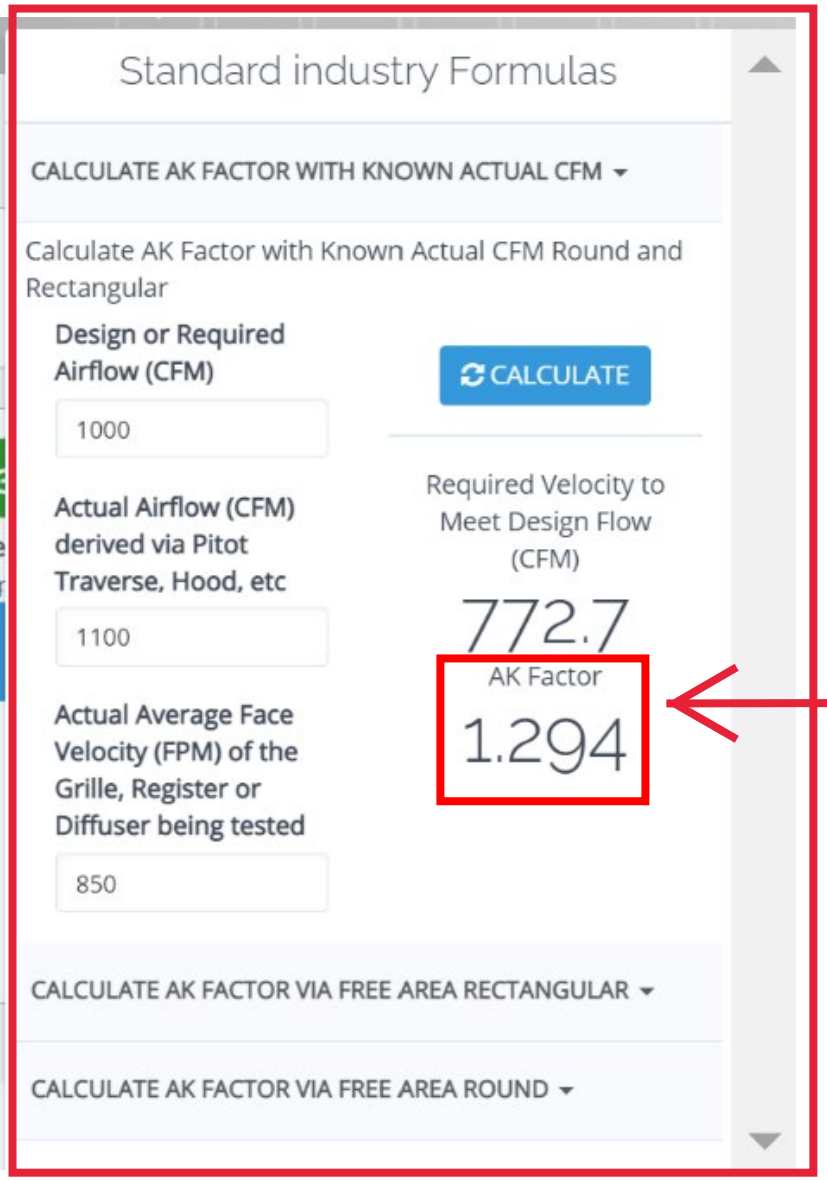
The "AK F" icon will load a calculator to create the factor.



The "AK F" icon will load this screen for data entry.

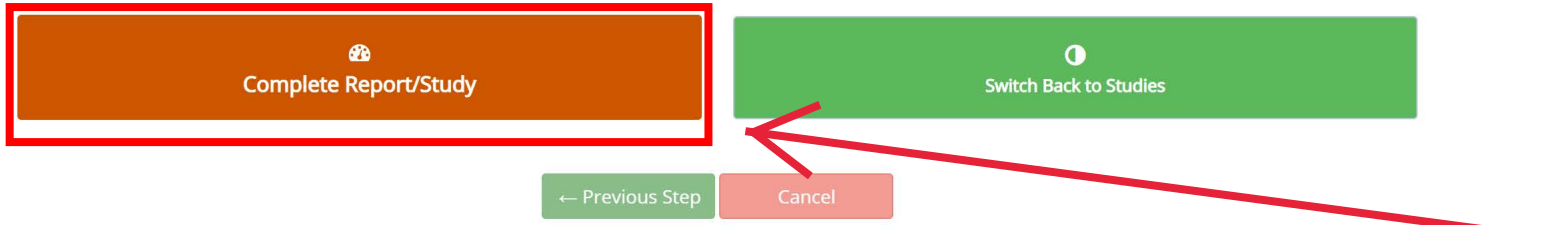
Click "Calculate"

Audit Master PRO



"AK F" Solution example

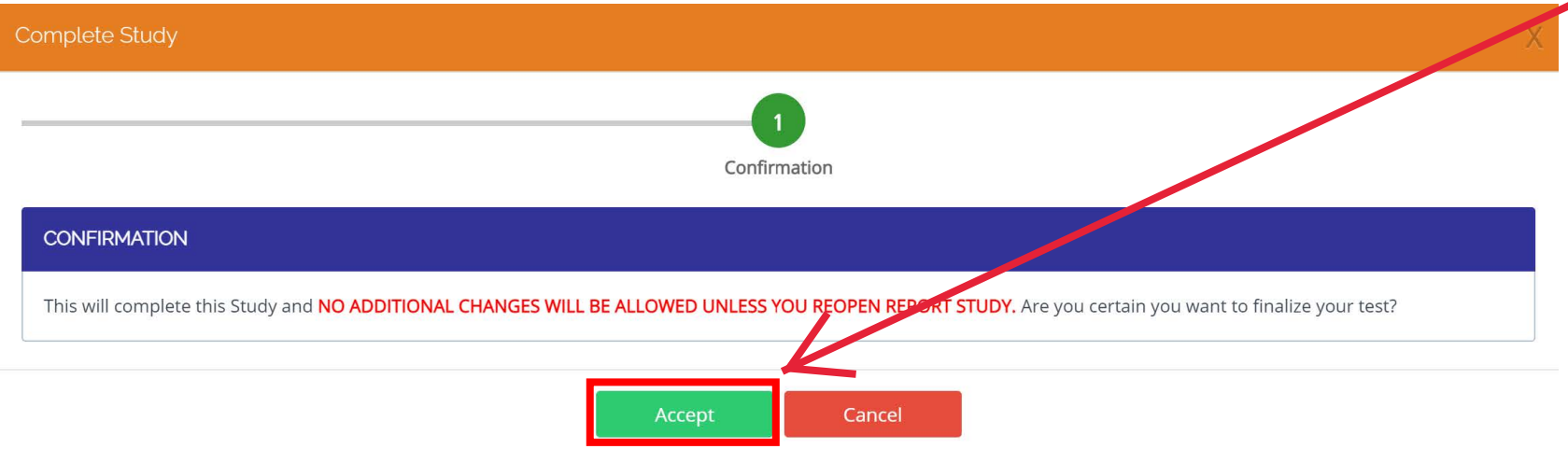
Calculated AK Factor



After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation



Audit Master Pro Training

General Matrix Report

This tutorial will act as a guide to create and input all data required for the selected air study.

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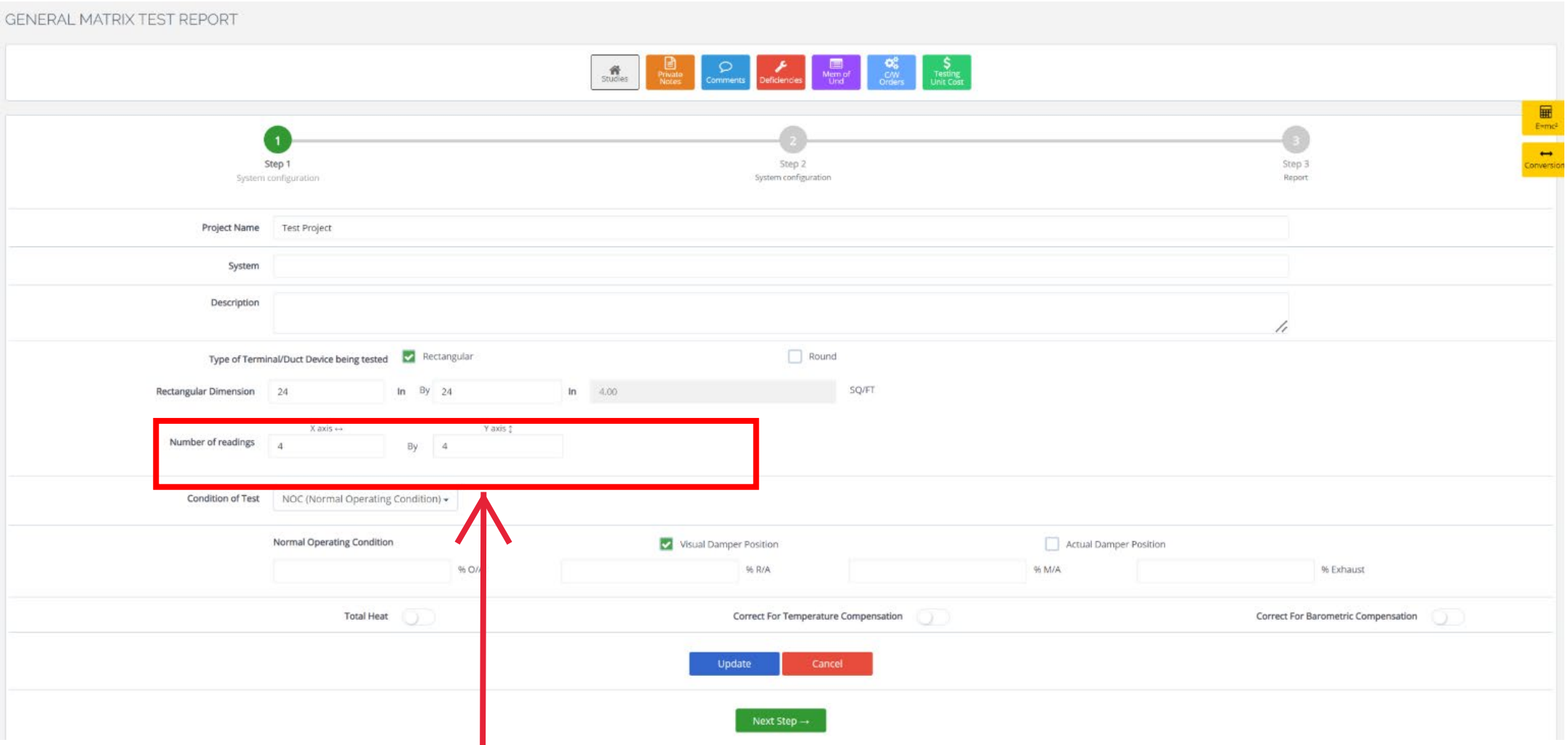
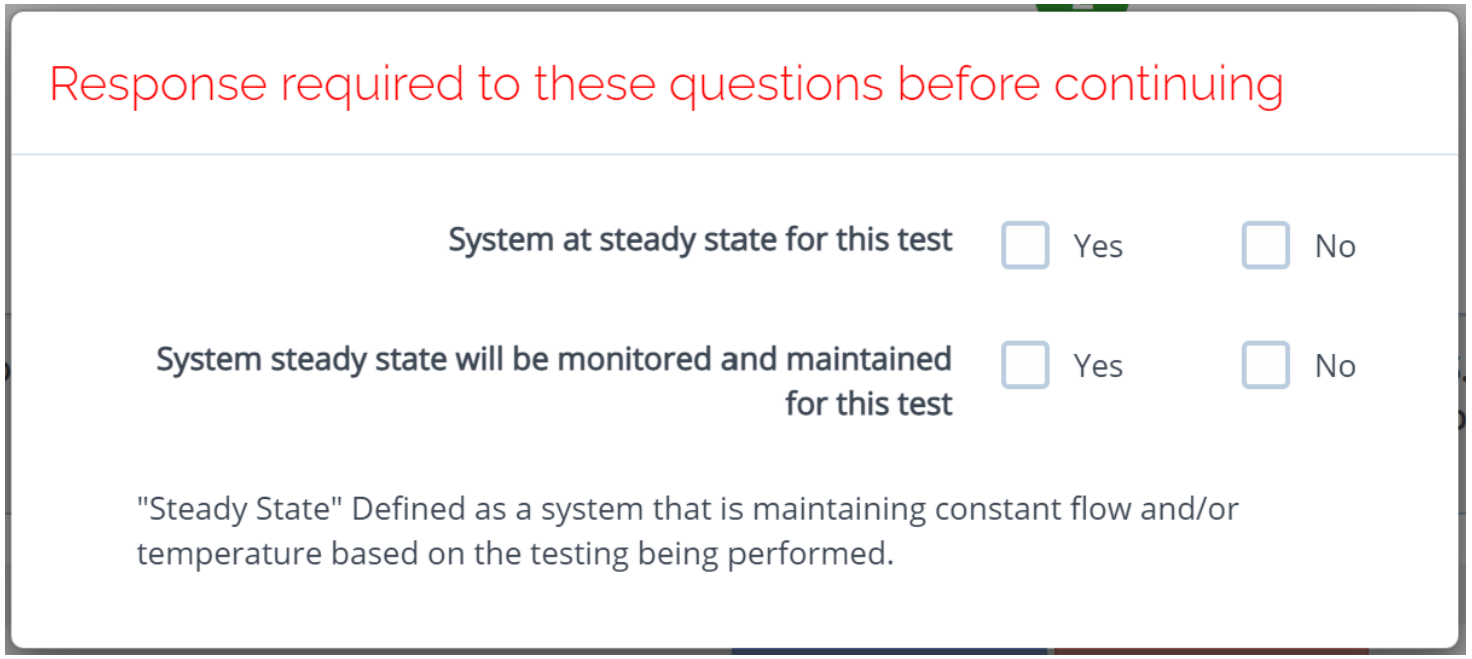
Audit Master PRO

Click "General Matrix Report"

Enter System Information



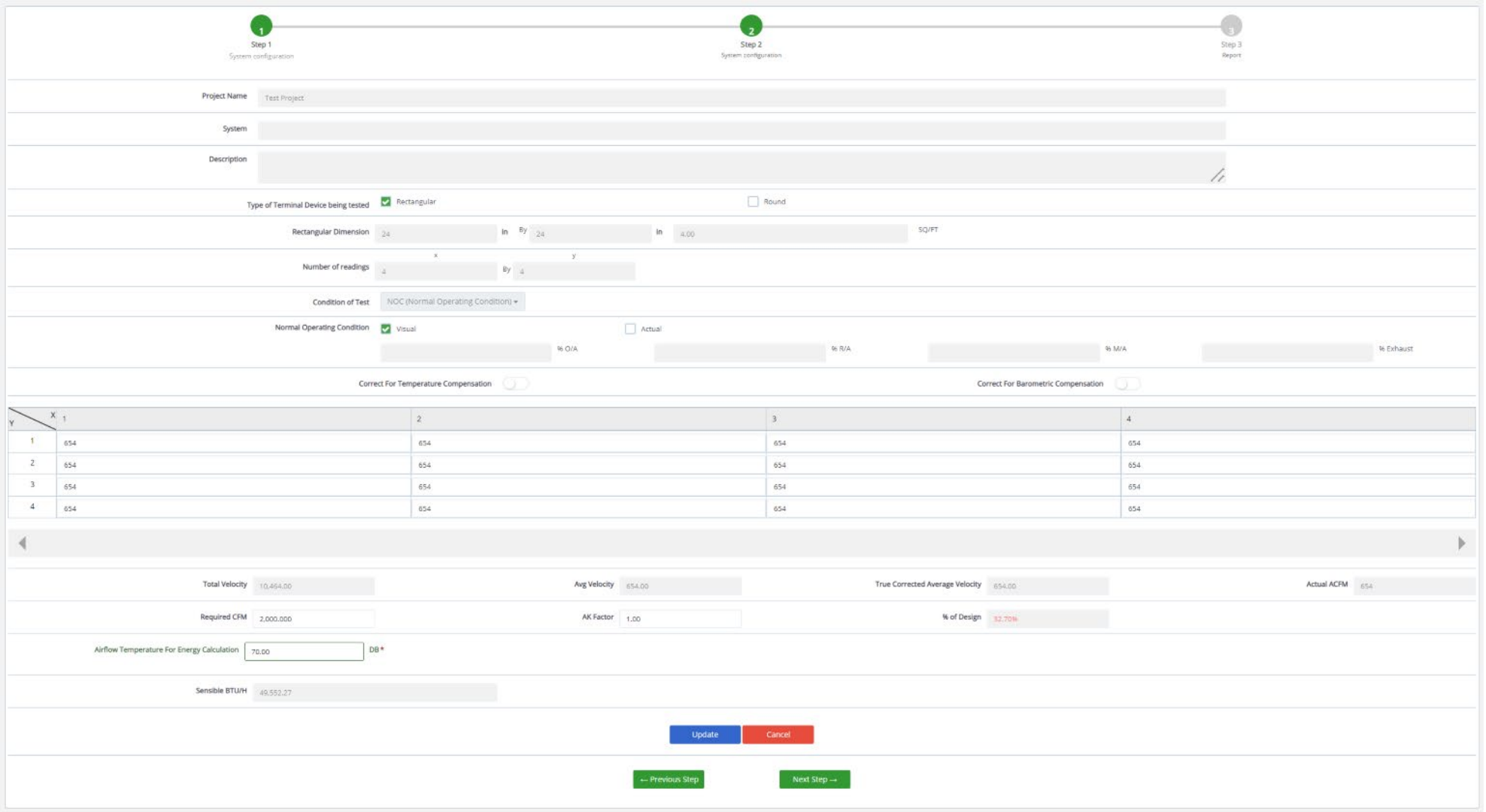
You will be required to enter the desired number of readings for the "X" and "Y" axis.
The velocity matrix does not automatically populate reading quantities.



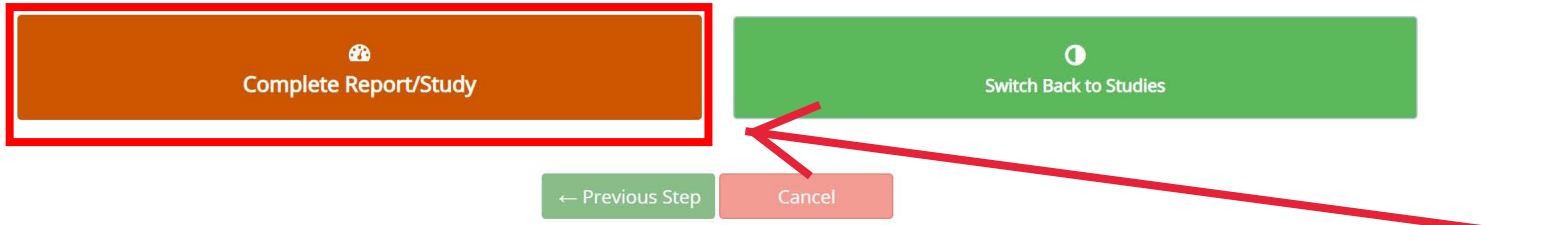
Throughout the AMP software you will be required to verify that the system being tested is at steady state.

Steady state is critical to testing as it ensures that any readings or calibrations are repeatable.

Audit Master PRO



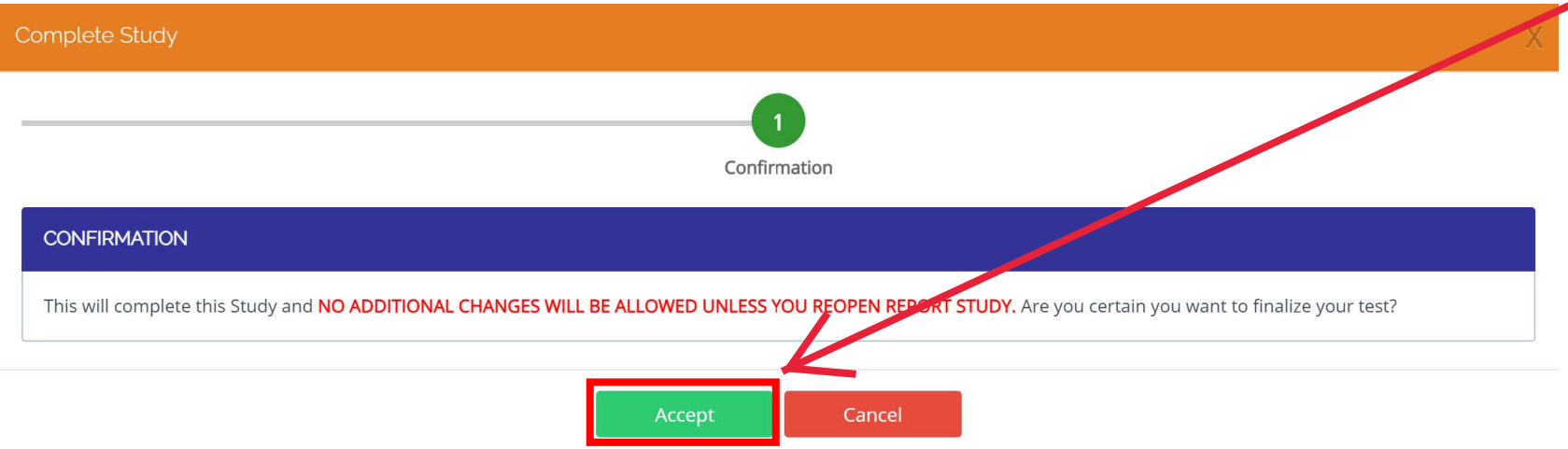
Enter Actual Data



After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation



Audit Master Pro Training

Rotating Vane Anemometer Report

This tutorial will act as a guide to create and input all data required for the selected air study.

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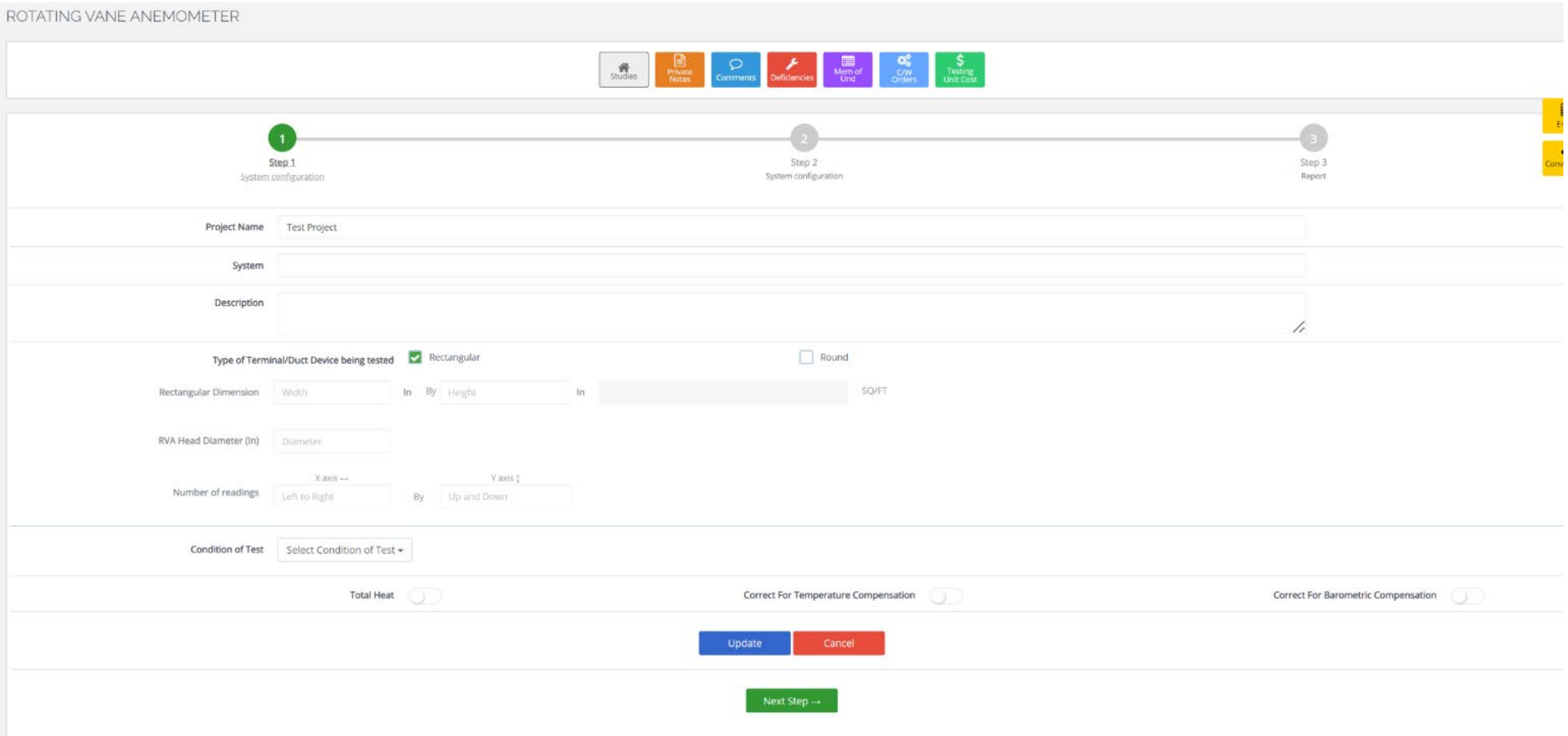
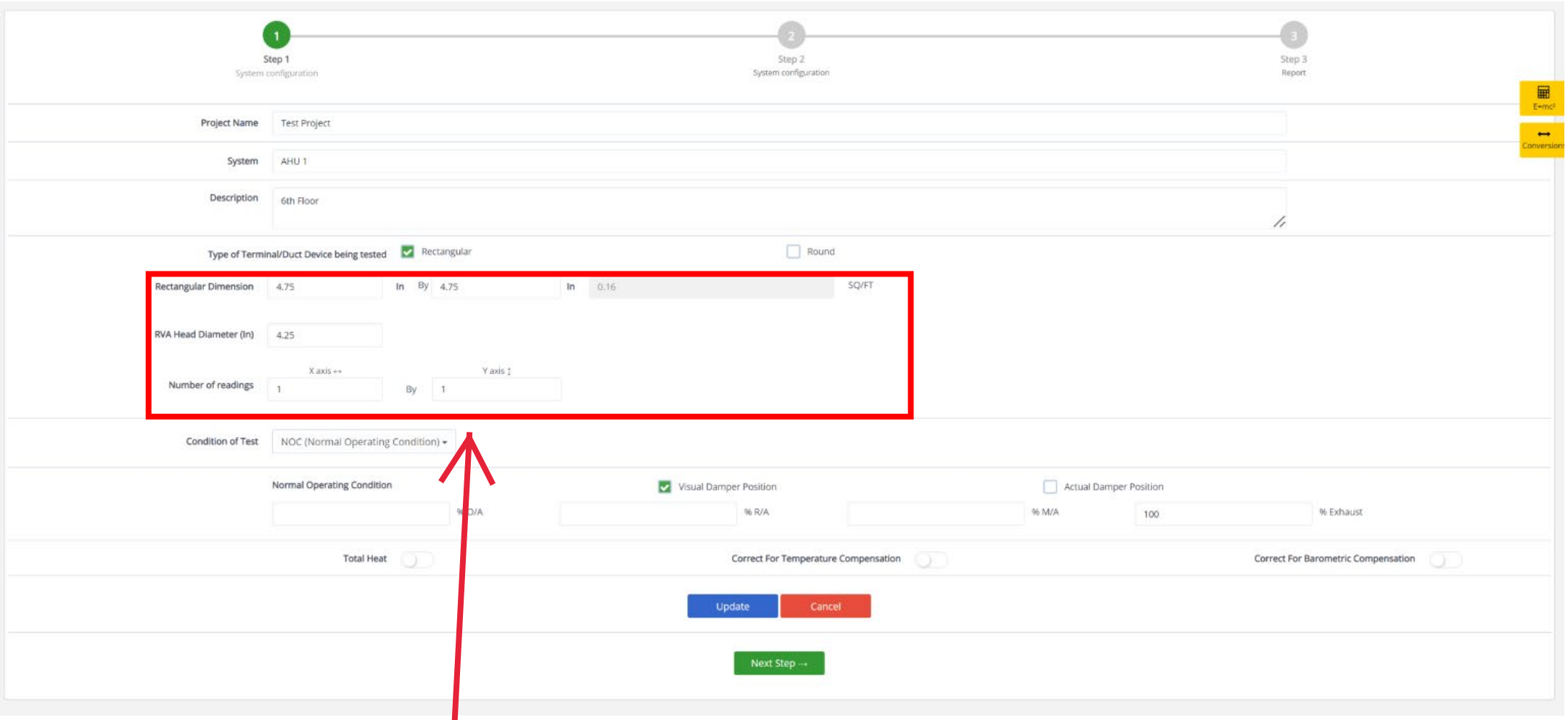
Audit Master PRO

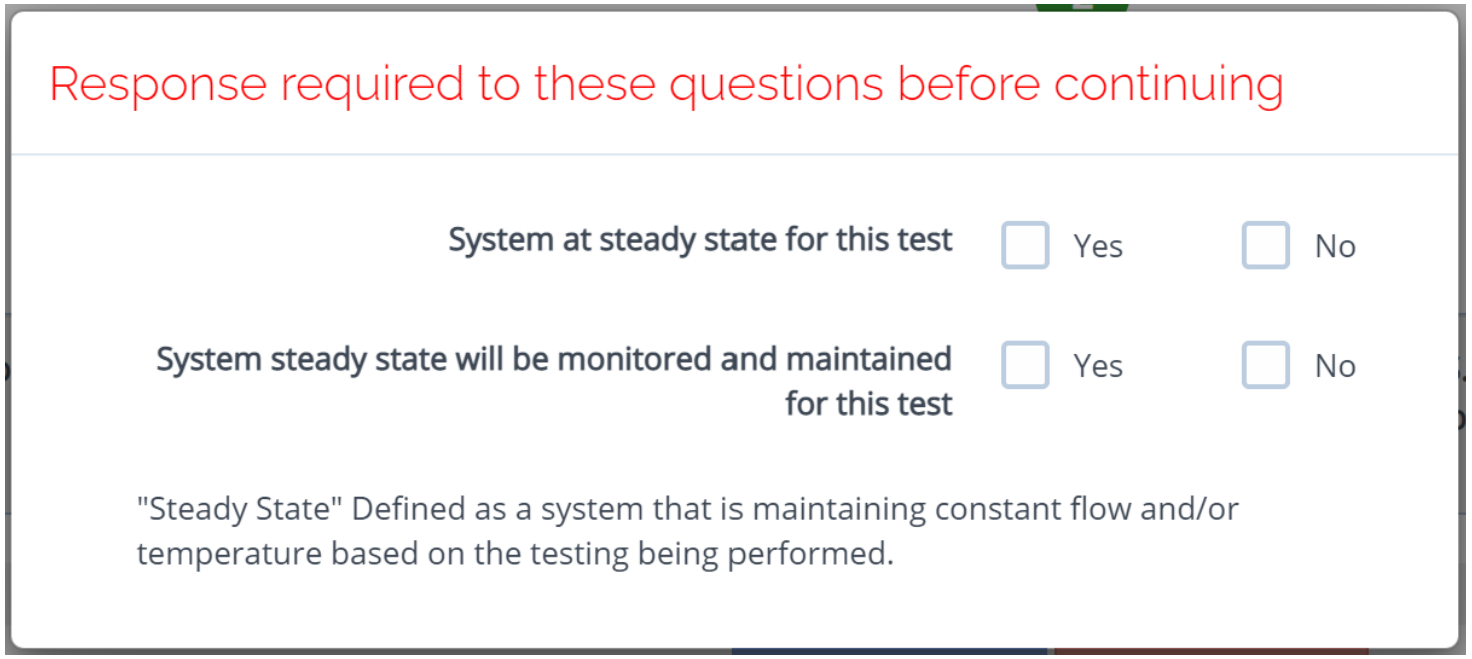
Click "Rotating Vane Anemometer Report"



Enter System Information



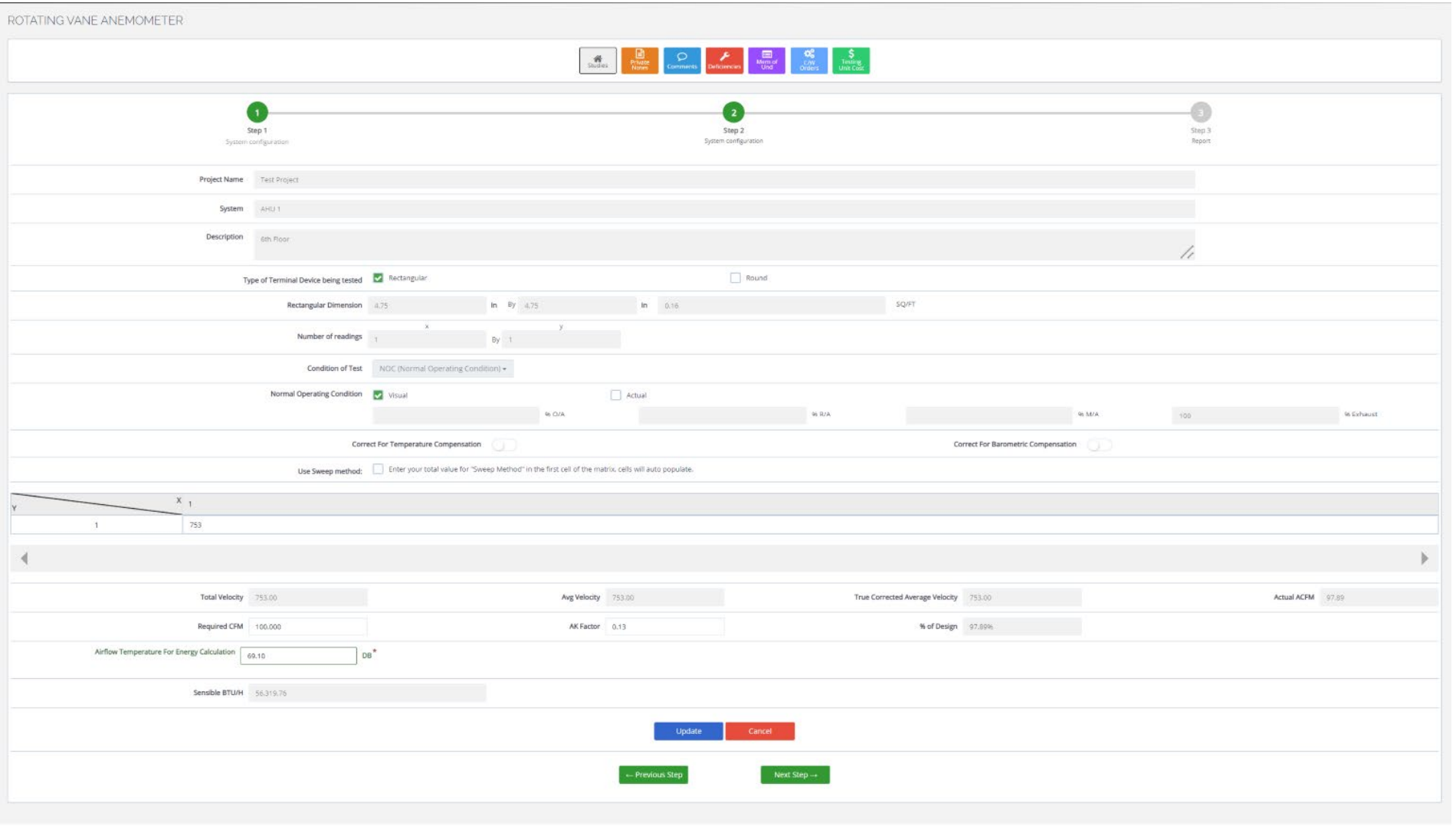
The Rotating Vane Anemometer (RVA) sheet will automatically calculate the required number of readings based on the entered opening and RVA head size.



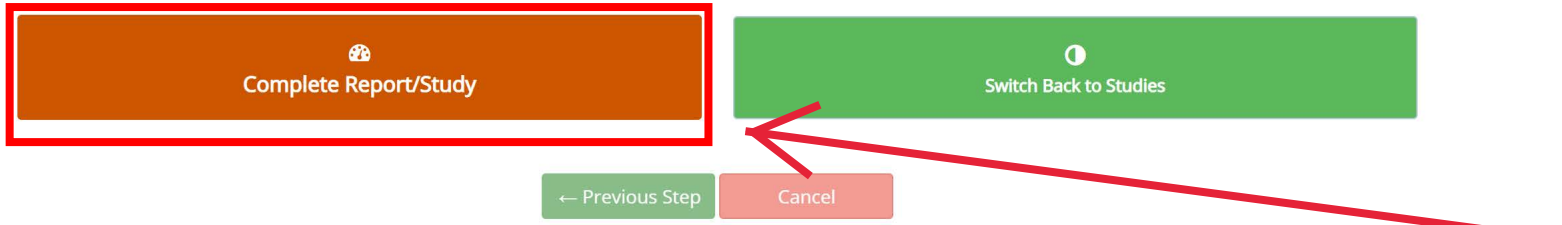
Throughout the AMP software you will be required to verify that the system being tested is at steady state.

Steady state is a critical to testing as it ensures that any readings or calibrations are repeatable.

Audit Master PRO



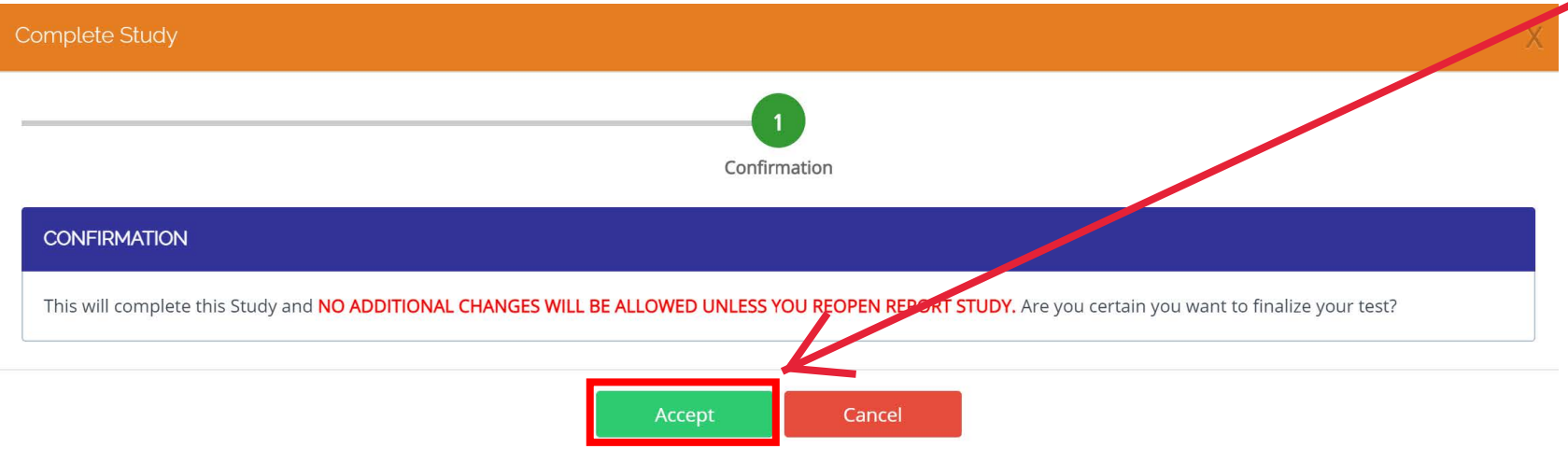
Enter Actual Data



After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation



Audit Master Pro Training

Air Foil Test Report

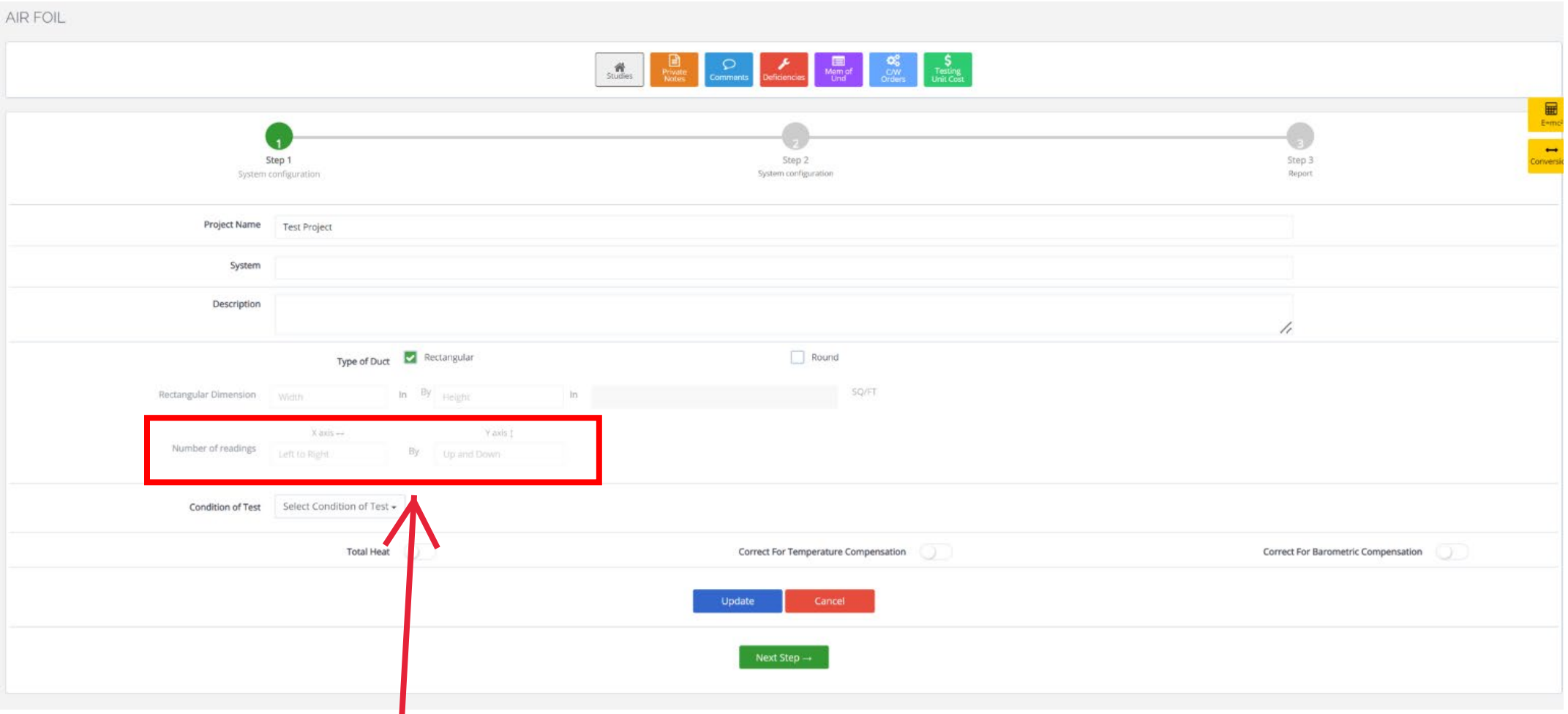
This tutorial will act as a guide to create and input all data required for the selected air study.

Go to Index

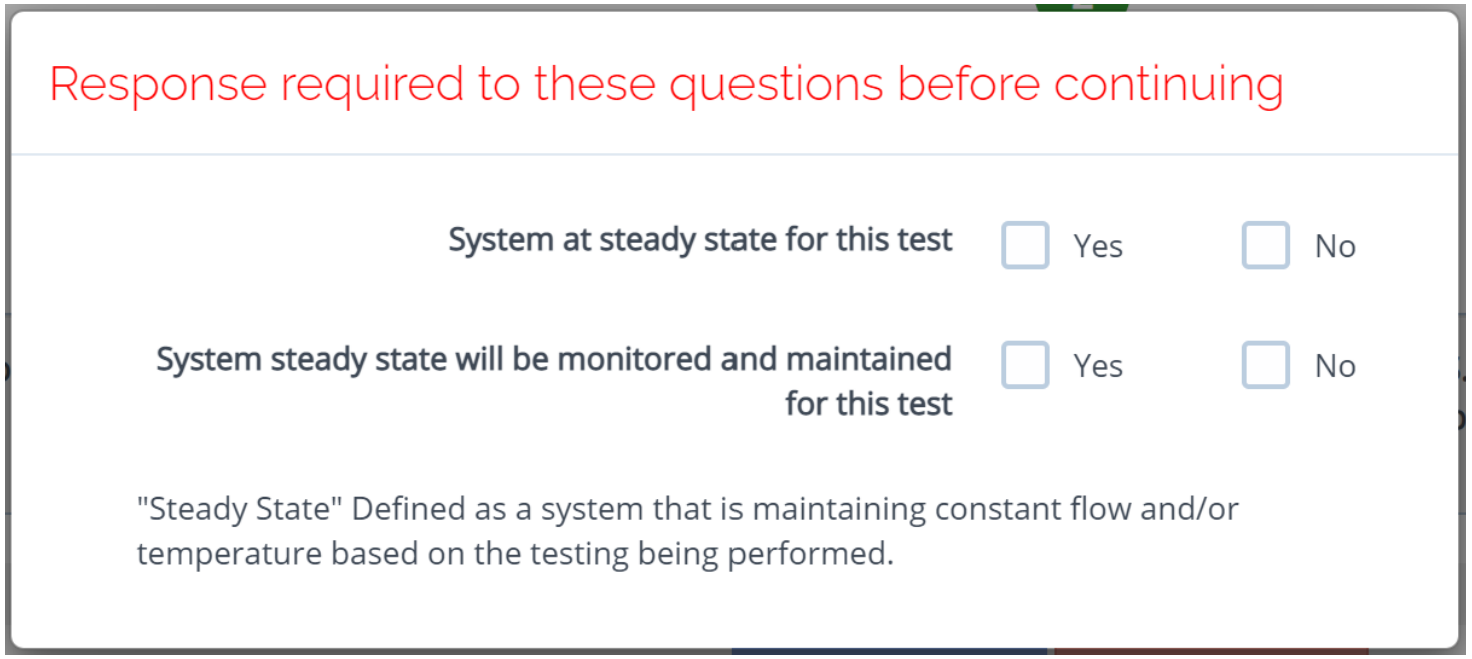
Audit Master PRO

Click "Air Foil Report"

Enter System Data



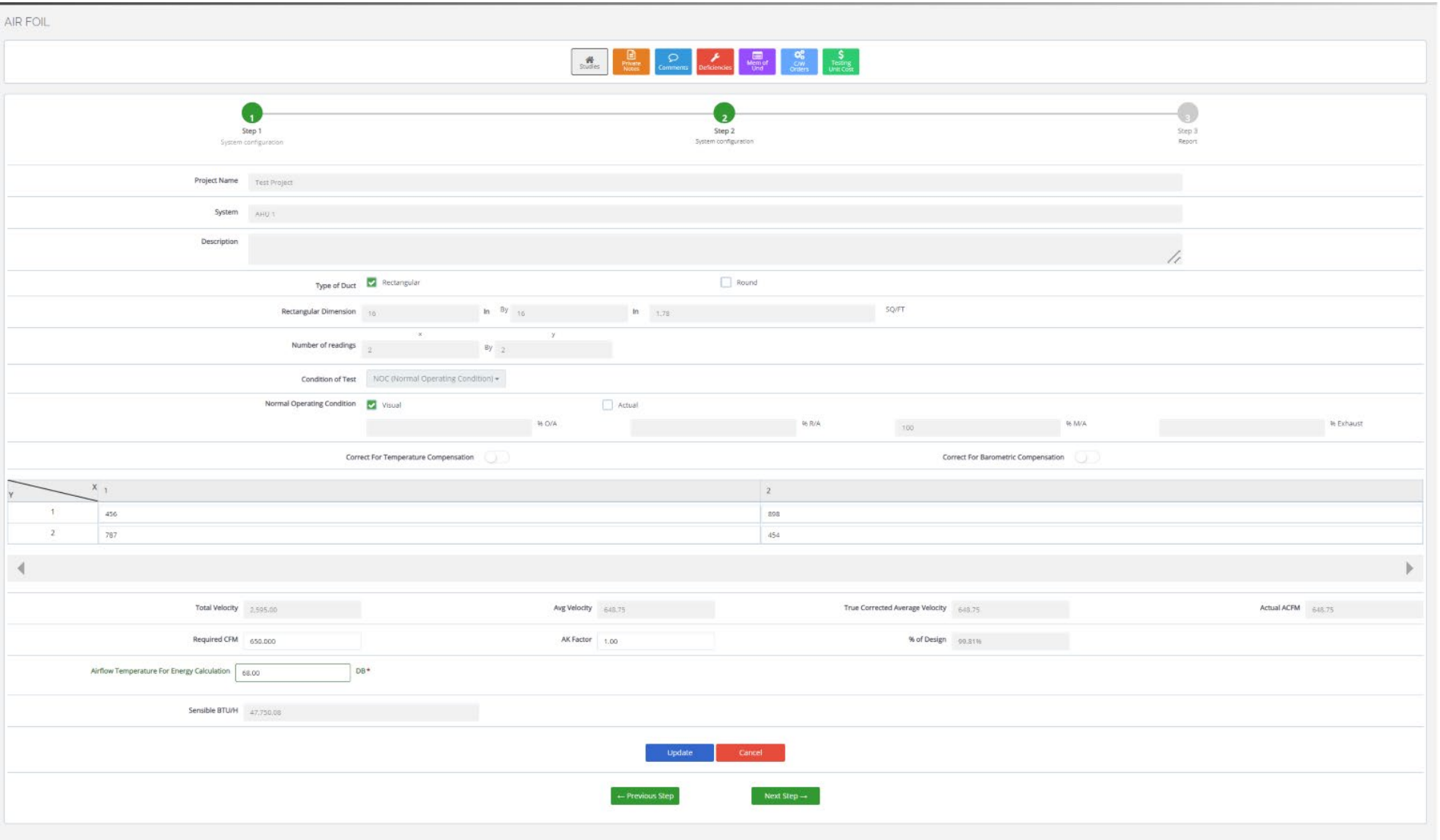
You will be required to enter the desired number of readings for the "X" and "Y" axis.
The velocity matrix does not automatically populate reading quantities.



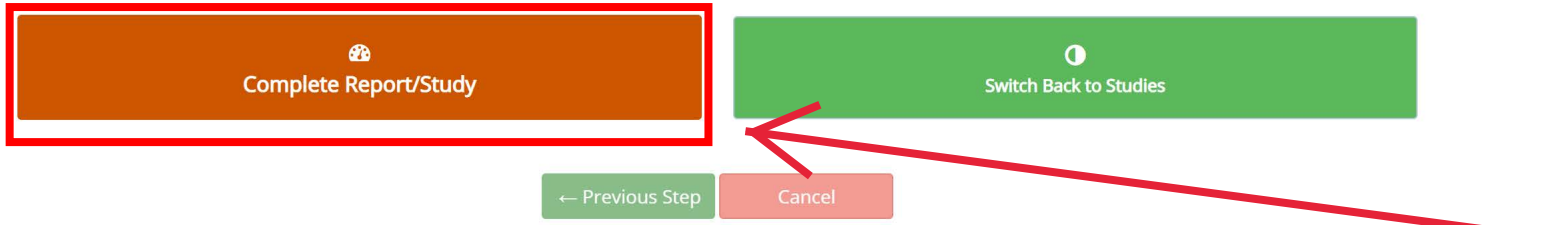
Throughout the AMP software you will be required to verify that the system being tested is at steady state.

Steady state is critical to testing as it ensures that any readings or calibrations are repeatable.

Audit Master PRO



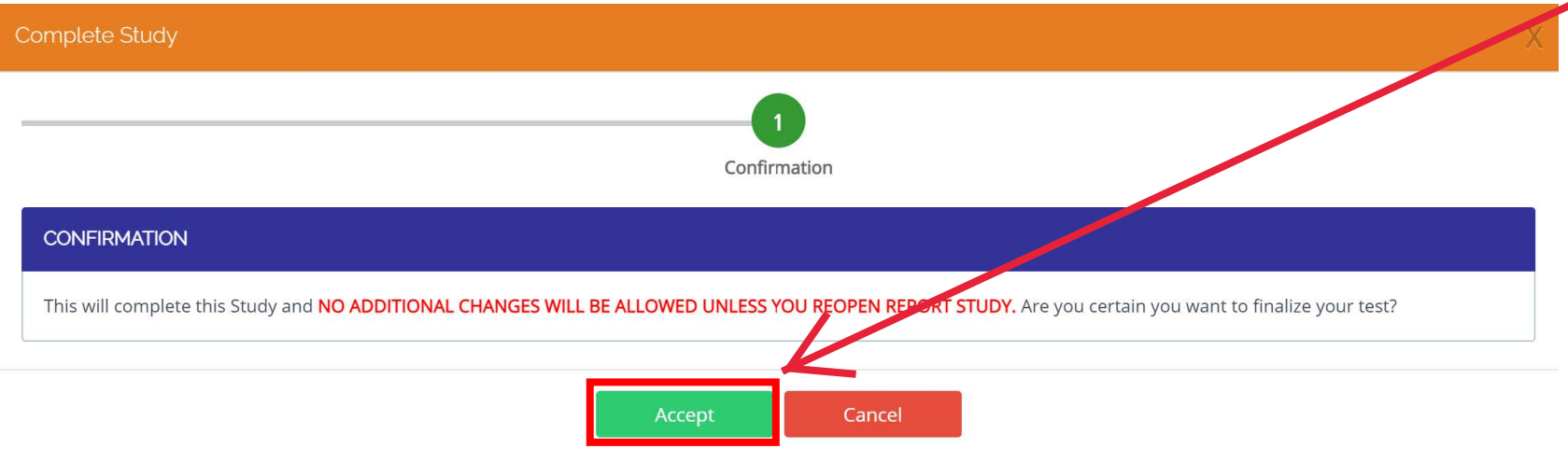
Enter Actual Data



After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation



Audit Master Pro Training

Hot Wire Anemometer Report

This tutorial will act as a guide to create and input all data required for the selected air study.

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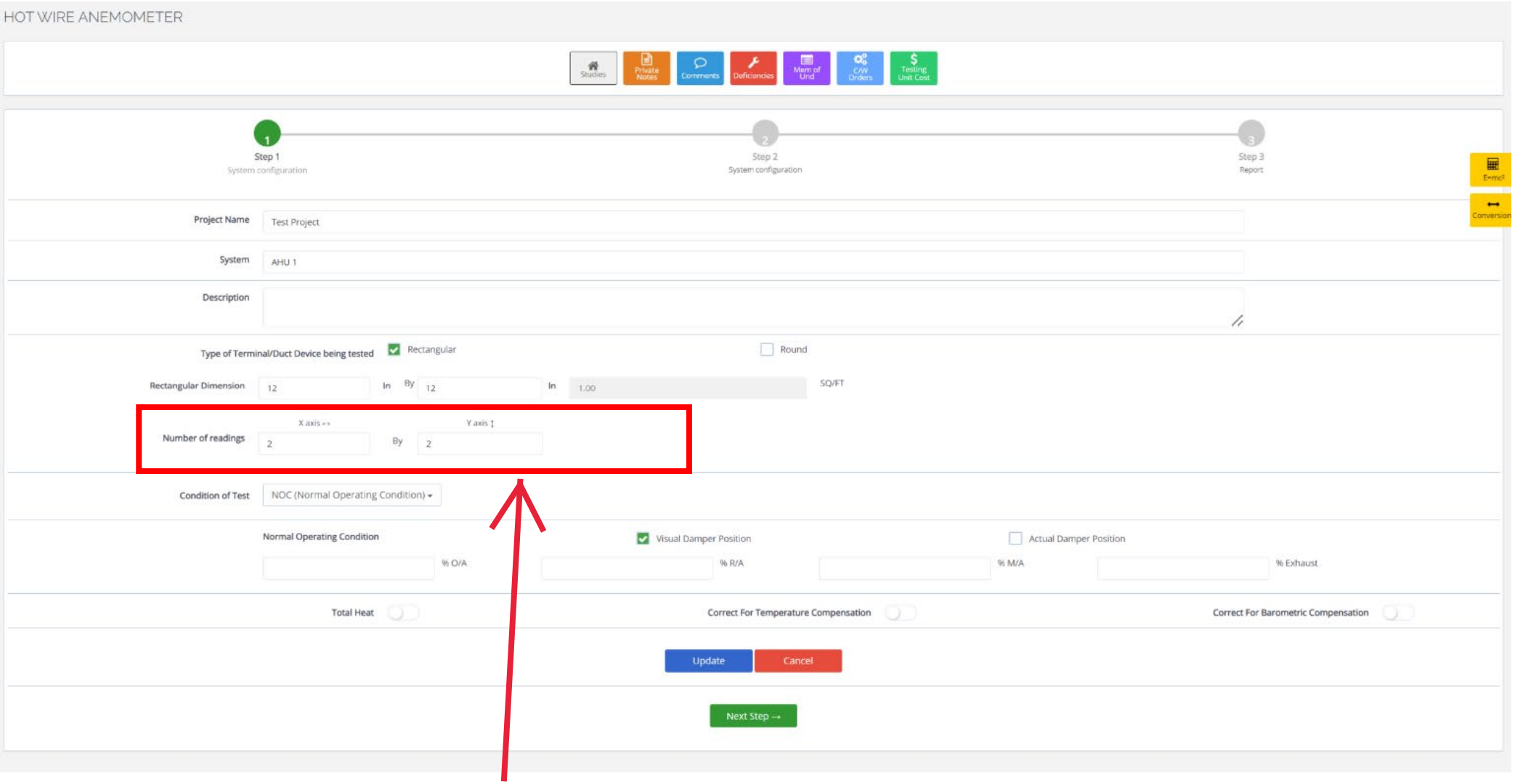
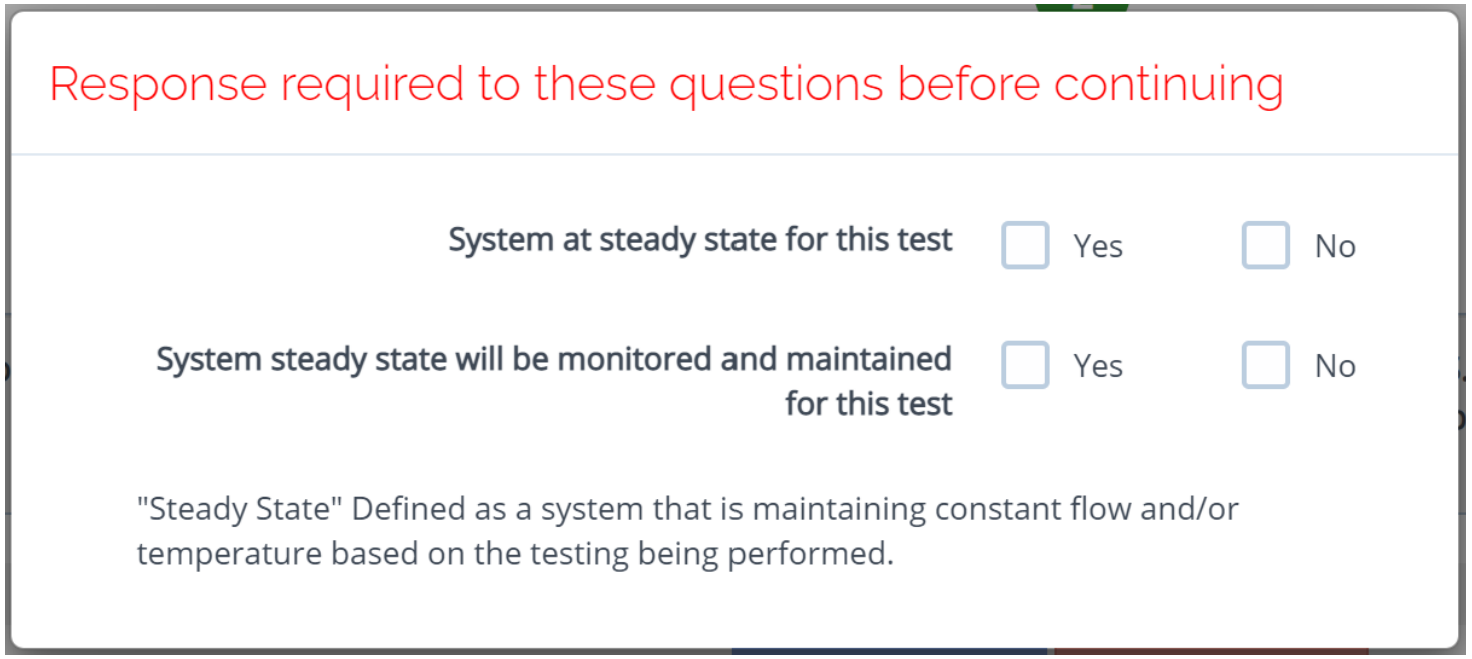
Audit Master PRO

Click "Hot Wire Anemometer Report"



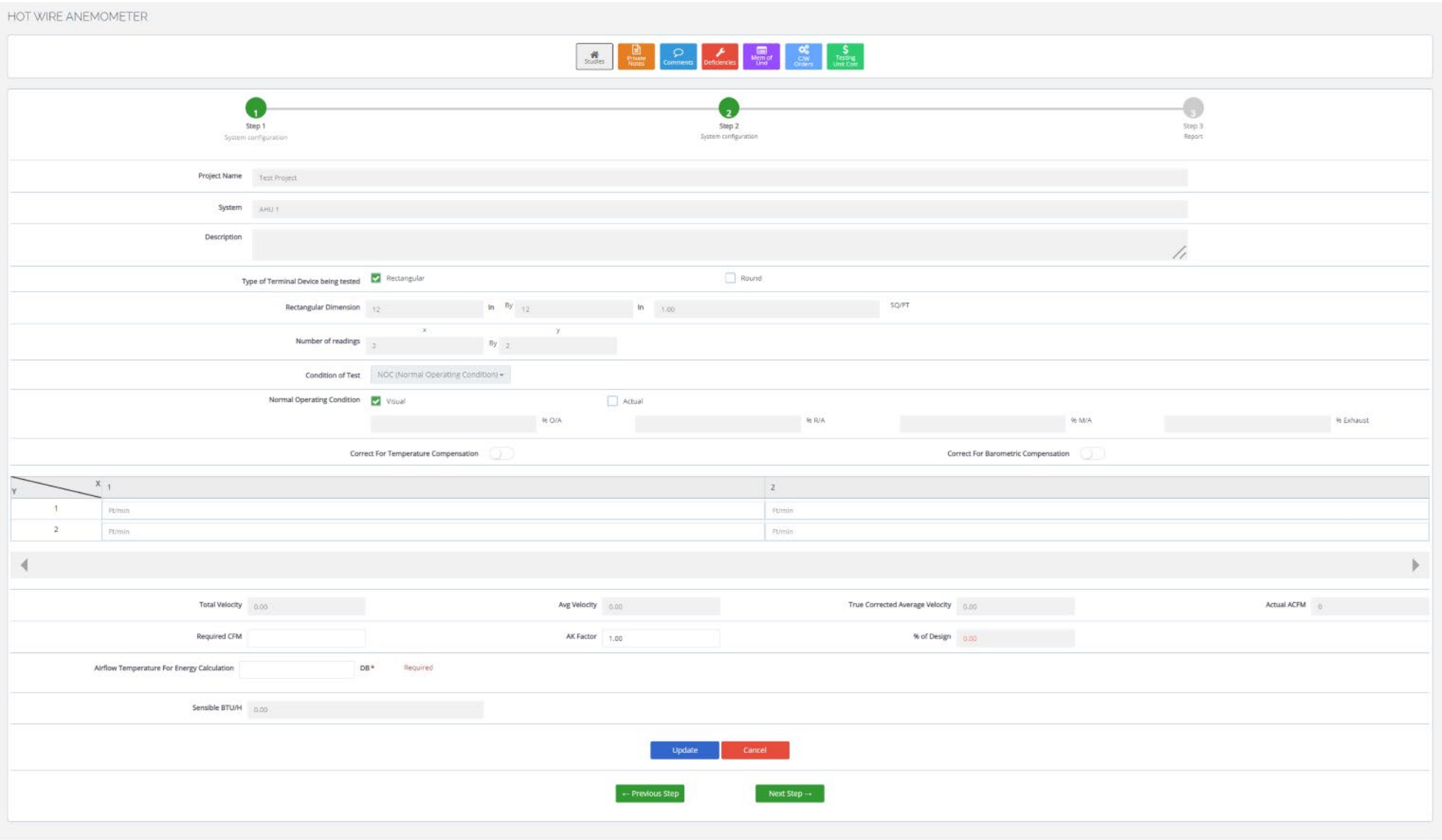
You will be required to enter the desired number of readings for the "X" and "Y" axis.
The velocity matrix does not automatically populate reading quantities.



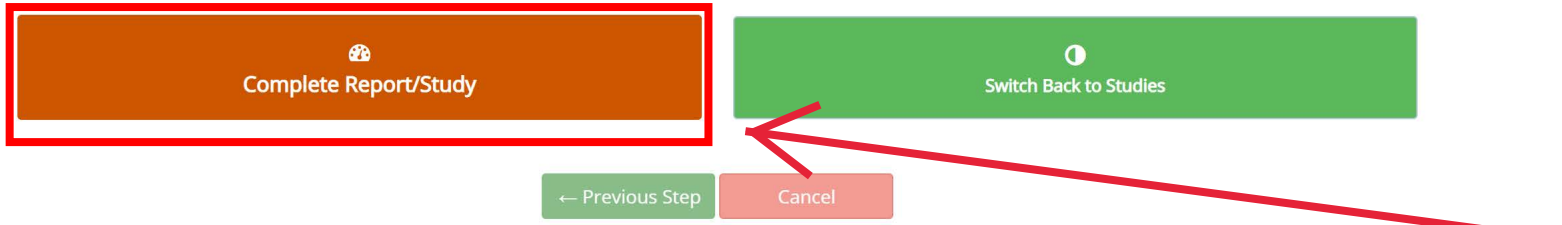
Throughout the AMP software you will be required to verify that the system being tested is at steady state.

Steady state is critical to testing as it ensures that any readings or calibrations are repeatable.

Audit Master PRO™



Enter Actual Data



After all data has been entered, the last steps will be:

Complete Report/Study

Accept Confirmation