



# Meter Reconciliation

Use the following procedure to view meter skips and meter out of tolerance values when reconciling meter transactions.

Prerequisites: If needed.

The Meter Reconciliation feature allows you to compare the values recorded for transactions that include a meter, and the values recorded when the meter is closed out. Using the Meter Reconciliation page, you may view data collected for a meter during the specified Inventory Date.

Meters will be displayed regardless of whether the associated equipment or asset is locked out or out of service. To assign a meter to equipment, refer to the [Equipment Configuration](#) help page for more information. To assign multiple meters to a Tank, refer to the [Tank Configuration](#) help page.

You may only access this feature when logged in or accessing a Site; this feature is not available at a Site Group.

You must belong to a FuelsManager user group with appropriate security access rights to view and modify data. Some pages may not be available for entry or edit depending on your user security rights.

The Company Hierarchy must be set up properly for meter reconciliation to work properly. Refer to the [Company Hierarchy Configuration](#) help page for more information.

## Reconciling Meters

You may view all meters configured for your Site, and check for meter skips or if any meter is out of tolerance.

Ensure that you are logged in to a Site (not a Site Group) before performing the steps below to reconcile meters:

- 1) From the menu, select **Accounting > Main > Meter Reconciliation**. The Meter Reconciliation page displays.
- 2) Enter or select the **Inventory Date** in which you want to reconcile meters.
- 3) You may filter the table by **Asset ID**, **Manager**, **Meter ID**, **Product**, and **Carrier** by selecting the appropriate values in the fields.
- 4) In the *In/Out of Tolerance* dropdown list, select any of the following:
  - **All** - displays meter transactions that are in or out of tolerance.
  - **In** - displays only meter transactions within the tolerance limit.
  - **Out** - displays only out of tolerance meters.
- 5) Enter the **Tolerance Value**.

If the meter variance is equal to or greater than this value, the results display in the table in red font.
- 6) Click **Refresh** to display the values in the table.

View Details	Asset ID	Carrier	Error	Meter ID	Meter Start	Meter Stop	Meter Total	Meter Variance	Product	Rotates Backwards	Transaction Total
Arm 1		A34B	▲	401	0	0	0	0			0
Arm 1			▲	101	340342	250080	9658	409322	12632*		409980
Custom Tank 08			▲	08	0	0	0	0			0
Arm 2			▲	501	0	0	0	0			0
			▲	DoravilleMeterStation1	0	0	0	0			0
			▲	DoravilleMeterStation2	0	0	0	0			0
			▲	TEST123	0	0	0	0			0
Custom Tank 10			▲	Meter-0001	0	0	0	0			0
			▲	SyncCoefEq01	0	0	0	0			0
Arm 1			▲	1	0	0	0	0			0
Arm 1			▲	smeter	0	0	0	0			0
Arm 1			▲	601	7102	7102	0	0	12622		0
Arm 1			▲	701	0	0	0	0			0
Arm 1			▲	602	0	0	0	0			0
Arm 2			▲	8	475	475	0	0	99001		0
Arm 2			▲	2	2100	2100	0	0	139007		0
Arm 2			▲	9	396	396	0	0	99002		0
			▲	DoravilleMeter1	0	0	0	0			0
			▲	DoravilleMeterStation99	0	0	0	0			0
ChadTrailer			▲	ChadMeter5	0	0	0	0			0
Asset 1			▲	Asset	0	0	0	0			0





The values displayed in the table are color-coded to help you distinguish if the meter transactions are in or out of tolerance, or if the transactions are closed out:

- **Black** - indicates no errors were found for this meter transaction.
- **Gray** - indicates this meter transaction has been closed out.
- **Red** - indicates this meter transaction is out of tolerance and should be investigated.

See the [Meter Reconciliation Page Filter and Column Descriptions](#) section below for more information.

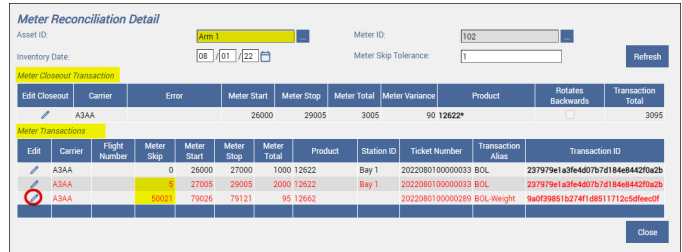
## Viewing the Meter Reconciliation Detail

Follow these steps to reconcile the meter skips or out of tolerance values:

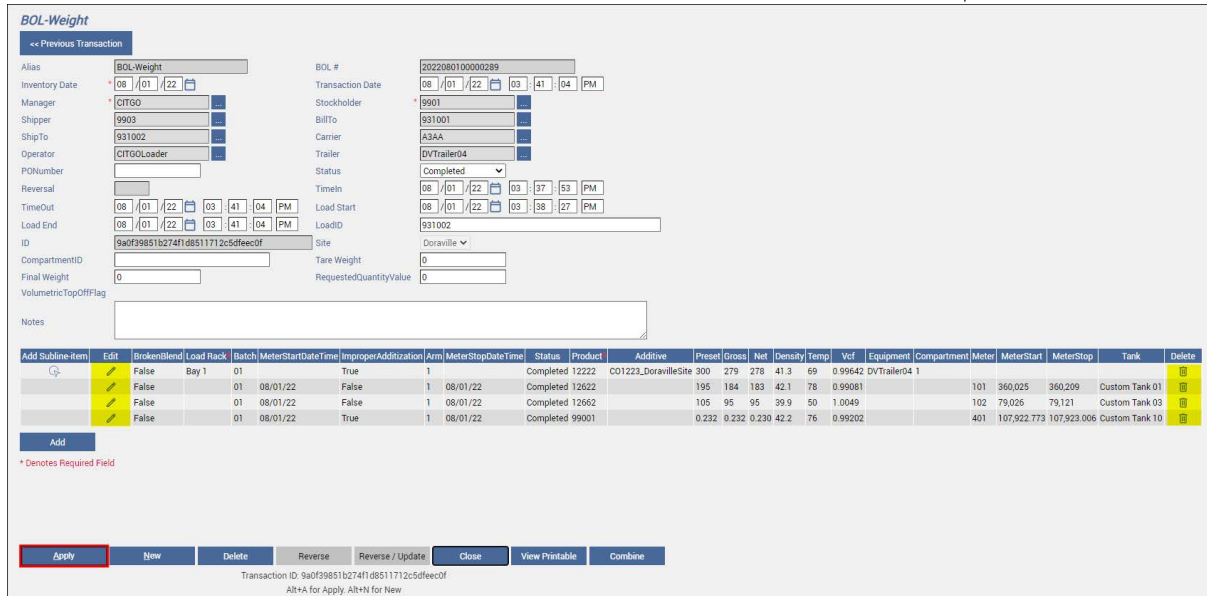
- 1) On the Meter Reconciliation page, click the **View**  icon next to the meter in which you want to view the meter transactions. The Meter Reconciliation Detail screen displays. If Meter Closeout or Meter transactions were recorded in FuelsManager, those display on the detail screen.
- 2) To correct the transaction, click the **Edit**  icon next to the transaction. The transaction detail screen displays. The transaction detail screen that displays may vary depending on the transaction alias used to create the selected transaction.
- 3) **Edit**  or **Delete**  the transaction(s) to correct the meter skip or variance.
- 4) When finished, click **Apply**.

The Meter Reconciliation Detail page shows original transactions only. Any reverse or reverse-update transactions that may have been entered to correct the transaction amounts are not shown.

See the [Meter Reconciliation Detail Page Filter and Column Descriptions](#) section below for more information.



Edit	Carrier	Flight Number	Meter Skip	Meter Start	Meter Stop	Meter Total	Meter Variance	Product	Station ID	Ticket Number	Transaction Alias	Transaction ID
	A3AA		0	26000	29005	3005			Bay 1	202208010000033	BOL	237979e1a3fe407b7d184e8442f0a2b
	A3AA		27005	29005	2000	12622			Bay 1	202208010000033	BOL	237979e1a3fe407b7d184e8442f0a2b
	A3AA		79026	79121	95	12662				2022080100000289	BOL-Weight	9a0f39851b274f1d8511712c5dfec0f

Add Subline-Item	Edit	BrokenBlend	Load Rack	Batch	MeterStart	Date/Time	ImproperAddition	Arm	MeterStop	Date/Time	Status	Product	Additive	Preset	Gross	Net	Density	Temp	Ycf	Equipment	Compartment	Meter	MeterStart	MeterStop	Tank	Delete
		False	Bay 1	01	08/01/22		True	1	08/01/22		Completed	12222	CO1223_DoravilleSite	300	279	278	41.3	69	0.99642	DVTrailer04	1	101	360,025	360,209	Custom Tank 01	
		False		01	08/01/22		False	1	08/01/22		Completed	12622		195	184	183	42.1	78	0.99081			102	79,026	79,121	Custom Tank 03	
		False		01	08/01/22		False	1	08/01/22		Completed	12662		105	95	95	39.9	50	1.0049			401	107,922.773	107,923.006	Custom Tank 10	
		False		01	08/01/22		True	1	08/01/22		Completed	99001		0.232	0.232	0.230	42.2	76	0.99202							

Transaction Detail Screens may show different fields and columns, and usage varies from one customer to another. Refer to the particular [Transaction](#) help page for more information.

## Meter Reconciliation Page Filter and Column Descriptions

Filter/Column	Description
Inventory Date	Filters the table to only show data for the specified Inventory Date, which is the day the transaction affected inventory.
Asset ID	Filters the table to only show data for all or the selected asset, such as Equipment, Arm, or Tank.
Meter ID	Filters the table to only show data for all or the selected meter.
Manager	Filters the table to only show data for all or the selected Manager.

## Meter Reconciliation Page Filter and Column Descriptions (continued)

Filter/Column	Description
Product	Filters the table to only show data for all or the selected Product.
Carrier	Filters the table to only show data for all or the selected Carrier company.
In / Out of Tolerance	Filters the table to display the following: <ul style="list-style-type: none"> <li>All - displays in and out of tolerance meters.</li> <li>In - displays only meters with variances within the tolerance limit. Meters with variances less than the specified <i>Tolerance Value</i> (below) display in the table.</li> <li>Out - displays only out of tolerance meters. Meters with variances equal to or greater than the specified <i>Tolerance Value</i> (below) display in the table.</li> </ul> <p>Meter variances that are out of tolerance display in the table with red text.</p>
Tolerance Value	Indicates the allowed variance between the Transaction Total and the Meter Start. This can be a quantity or percentage value. Refer to the <i>Sites Configuration System Tab</i> help page for more information on setting the tolerance value format.
Refresh	Click to refresh the values in the table.
View Details	Click to view meter transactions and meter closeout transactions for this meter. The <a href="#">Meter Reconciliation Detail</a> page displays.
Asset ID	Lists the Asset IDs for equipment or tanks with assigned meters.
Carrier	Lists the Carriers associated with the meter.
Error	Displays a Caution icon if there was an error calculating the meter values for the particular meter. Error conditions may include the following: <ul style="list-style-type: none"> <li>No meter closeout can be found before the specified inventory date.</li> <li>No meter closeout can be found on the specified inventory date.</li> <li>More than one meter closeout was found during the specified inventory date.</li> </ul> <p>Hover over the image to display the reason for the error.</p>
Meter ID	Lists the Meter IDs.
Meter Start	Lists the Meter Start values. Meter Start values are determined by the meter stop from the last meter closeout before the specified inventory date. If there is an error, a zero (0) displays in this field.
Meter Stop	Lists the Meter Stop values. Meter Stop values are determined by the meter stop from the last meter closeout which occurred on the specified inventory date. If there is an error, a zero (0) displays in this field.
Meter Total	Lists the Meter Totals. Meter Totals are calculated based on the Meter Start and Meter Stop values, with meter rollover and backwards rotating meters taken into account. If there is an error, a zero (0) displays in this field. <b>Calculation:</b> Meter Total = Meter Stop - Meter Start
Meter Variance	Lists the Meter Variances. <b>Calculation:</b> Transaction Total - Meter Total
Product	Lists the product associated with the meter.
Rotates Backwards	Indicates if the meter rotates backward: <ul style="list-style-type: none"> <li>When checked - indicates that this meter can rotate forward during a refuel and backward during a defuel. In this case, the Meter Variance is reversed and is calculated as Meter Start - Meter Stop.</li> <li>When clear - indicates that this equipment only rotates forward.</li> </ul>
Transaction Total	Lists the Transaction Total. Transaction Totals are calculated based on the sum of the meter totals for the corresponding Asset during the specified inventory date. Click the View Details icon to view the meter transactions associated with this Asset.
Generate Report	Click to generate the Meter Reconciliation Report. Refer to <a href="#">QRG484: Meter Reconciliation Report</a> for more information.

## Meter Reconciliation Detail Page Filter and Column Descriptions

Filter/Column	Description
Asset ID	Filters the table to only show data for the selected asset, such as Equipment, Arm, or Tank.
Meter ID	Filters the table to only show meter transactions for the selected meter.
Inventory Date	Filters the table to only show data for the specified Inventory Date, which is the day the transaction affected inventory. <i>The meter start values are based on a meter closeout transaction which occurred before the specified Inventory date. The meter stop values are based on a meter closeout transaction which occurred during the specified date.</i>
Meter Skip Tolerance	Indicates the allowable meter skip value. <i>Meter Skip values greater than or equal to the Meter Skip Tolerance display in the table with red text.</i>
Refresh	Click to refresh the values in the table.
<b>Meter Closeout Transaction - This table shows the meter closeout transaction for the selected meter on the specified inventory date.</b>	
Edit Closeout	Click the icon next to the Carrier to view the meter closeout transaction detail screen.
Carrier	Lists the Carriers associated with the Meter selected in the filter section of this page.
Error	Displays a Caution icon if there was an error calculating the meter values for the particular meter. Error conditions may include the following: <ul style="list-style-type: none"> <li>No meter closeout can be found before the specified inventory date.</li> <li>No meter closeout can be found during the specified inventory date.</li> <li>More than one meter closeout was found during the specified inventory date.</li> </ul> <i>Hover over the image to display the reason for the error.</i>
Meter Start	Lists the Meter Start values. <i>Meter Start values are determined by the meter stop from the last meter closeout before the specified inventory date. If there is an error, a zero (0) displays in this field.</i>
Meter Stop	Lists the Meter Stop values. <i>Meter Stop values are determined by the meter stop from the last meter closeout which occurred during the specified inventory date. If there is an error, a zero (0) displays in this field.</i>
Meter Total	Lists the Meter Totals. <i>Meter Totals are calculated based on the Meter Start and Meter Stop values, with meter rollover and backwards rotating meters taken into account. If there is an error, a zero (0) displays in this field.</i> <b>Calculation:</b> Meter Total = Meter Stop - Meter Start
Meter Variance	Lists the Meter Variances. <i>Meter Variances are calculated based on the difference between the Meter Total (above) and Transaction Total (below).</i> <b>Calculation:</b> Transaction Total - Meter Total
Product	Lists the product associated with the meter.
Rotates Backwards	Indicates if the meter rotates backward: <ul style="list-style-type: none"> <li>When checked - indicates that this meter can rotate forward during a refuel and backward during a defuel.</li> <li>When clear - indicates that this equipment only rotates forward.</li> </ul>
Transaction Total	Lists the Transaction Total. <i>Transaction Totals are calculated based on the sum of the Meter Total column (in the Meter Transactions table) for all Meter transactions during the specified inventory date.</i>
<b>Meter Transactions - This table shows Meter transactions with meter readings for the selected meter on the specified inventory date.</b>	
Edit	Click the icon next to the Carrier to view the transaction detail screen for this meter transaction.
Carrier	Lists the Carriers associated with the Meter selected in the filter section of this page.
Flight Number	Lists the number that identifies the routing ID for this meter transaction. <i>The Flight Number is included in meter transactions when the RoutingID field is configured in the Fields tab of the transaction alias. Refer the Transaction Aliases Configuration Fields Tab help for more information. This is typically used in FuelsManager Aviation.</i>

## Meter Reconciliation Detail Page Filter and Column Descriptions (continued)

Filter/Column	Description
Meter Skip	Lists the meter skips values which are calculated based on the previous transaction's meter stop value and the current transaction's meter start value. To calculate meter skip, it is assumed that a meter can rollover at most once a day. <b>Calculation:</b> Meter Start - previous transaction's Meter stop, which is shown on the previous row.
Meter Start	Lists the Meter Start values. Meter Start values are determined by the meter stop from the last meter closeout before the specified inventory date. If there is an error, a zero (0) displays in this field.
Meter Stop	Lists the Meter Stop values. Meter Stop values are determined by the meter stop from the last meter closeout which occurred during the specified inventory date. If there is an error, a zero (0) displays in this field.
Meter Total	Lists the Meter Totals. Meter Totals are calculated based on the Meter Start and Meter Stop values, with meter rollover and backwards rotating meters taken into account. If there is an error, a zero (0) displays in this field. <b>Calculation:</b> Meter Total = Meter Stop - Meter Start
Product	Lists the product associated with the meter.
Station ID	Lists the alphanumeric value that identifies the loading location for this meter transaction.
Ticket Number	Lists the ticket number or the BOL number for this transaction. The Ticket Number is included in meter transactions when the DocumentNumber field is configured in the <i>Fields</i> tab of the BOL transaction alias. See the <a href="#">Transaction Alias Configuration help</a> for more information on configuring transaction aliases.
Transaction Alias	Lists the transaction alias used for this meter transaction.
Transaction ID	Lists the alphanumeric value that identifies the meter transaction.
Close	Click to close the Meter Reconciliation Detail page and return to the Meter Reconciliation summary page.