New York ISO
Independent System Operator

UG 04

Settlement Data Applications User's Guide

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New York ISO

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Revision History

Version	Effective Date	Revisions
1.0	10/10/2007	Copyright Page ➢ Copyright date updated to 2007. Section 2.3 ➢ Page 2-9: replaced QUERY_TYPE with BID_TYPE in the Response File: Header Detail section. ➢ Removed grouped unit text that is not applicable to template, added note for MA users to #2 and #3. ➢ Request File: Header Detail – updated SUBZONE_PTID, METER_VERIFICATION variables. Section 2.5 ➢ Page 2-20: added date & hour to the Response File – Data Detail section. Section 3 ➢ Updated listing of error messages. Sections 4.1.1 and 4.1.2 ➢ Removed references to multiple Subzone selection and replaced screen pictures. Section 4.1.2 ➢ Added text for the Gen/Tie (MWh) column. Section 4.1.3 ➢ Added detail for the Gen/Tie report option. Section 4.1.4 ➢ Added detail for the Subzone report option.
1.1	03/18/2008	Sections 2.2 and 2.4 ➢ Added REQUEST_ID to the request file, the response file, and example 1 for the tie_gen_subzone_data and load_bus_hour_data templates. Section 2.5 ➢ Removed hour and minutes from the billing date field on example 1. Section 2.8.1 ➢ Added detail for station power data availability. Section 3.0 ➢ Added new error codes.
2.0	09/05/2008	Section 2.11 ➢ Added Generator Availabilities download. Section 2.12 ➢ Added Generator PTS Results download. Section 2.13 ➢ Added Minimum Oil Burn Overview and Upload/Download templates.

Version	Effective Date	Revisions
		Section 3.0 ➢ Updated listing of error messages.
3.0	04/06/2009	Global ➢ Reformatted per new template to standardize presentation. ➢ Implemented minor stylistic changes. ➢ Standardized labeling and numbering of graphical material. Revision History Table ➢ Changed column headings as follows: • "Revision" changed to "Version." • "Changes" changed to "Revisions." ➢ Arranged versions in reverse chronological order and section entries in ascending order. Section 4.1.2, 4.1.3 ➢ Added LESR detail for Subzone Load Detail and Gen/Tie Detail Reports. Section 3 ➢ Added LESR Upload and Download error messages. Section 2.14 ➢ Added LESR Upload and Download templates. Section 2.4 ➢ Clarified that positive, negative, and 0 values supported for LOAD_BUS_HOUR_DATA template. Section 2.2, 2.3 ➢ Clarified that LESR generators do not use the TIE_GEN_SUBZONE_DATA, TIE_GEN_SUBZONE_DETAIL templates. Section 2.1.2 ➢ Updated SDX Upload/Download screen display.
3.1	01/12/2010	Global ➢ Updated links to and screenshots of the NYISO Web site to reflect changes secondary to the site's redesign. Section 2.1.3 ➢ Revised to update *SDX User's Guide* access instructions secondary to NYISO Web site redesign. Section 2.2 ➢ In examples, revised format for date and time to reflect MM/DD/YYYY and HH24:MM, respectively. Section 2.4 ➢ In examples, revised format for date and time to reflect MM/DD/YYYY and HH24:MM, respectively. Section 2.13.2 ➢ In first example, revised format for date and time to reflect MM/DD/YYYY and HH24:MM, respectively. Section 2.13.3

Version	Effective Date	Revisions
		➢ In first example, revised format for date and time to reflect MM/DD/YYYY and HH24:MM, respectively. Section 2.13.4 ➢ In the example, revised format for date and time to reflect MM/DD/YYYY and HH24:MM, respectively. Section 2.14.1 ➢ In Request File example, revised time format to reflect HH24:MM.
4.0	12/20/2010	Section 2.1 ➢ Added new section 2.1.4 Daily Reconciliation Web Page. Section 2.13.2 ➢ Added an additional bullet to the "Additional Notes" Section.
5.0	8/11/2011	All Applicable Sections ➢ Changed references from SDX User's Guide to new document name, Settlement Data Applications User's Guide. ➢ Replaced screen shots applicable with the B210 Consolidated Invoice Redesign project. ➢ Updated Metering Authority to Meter Authority Section 1 and sub sections ➢ Added information for all applications included in document. ➢ Moved NYISO user guide web page to Section 1. Section 2.7 ➢ Deleted Invoice History template. Sections 2.8 and 2.9 ➢ Added note specifying returned data set Sections 2.12 ➢ Updated Tariff reference Section 4 ➢ Added details and new screen shots for CSI including the Invoice Summary and all of the Invoice Detail reports. ➢ 4.1 - added new section for system requirements. ➢ 4.3.1 - updated Version definition for daily reconciliation query ➢
5.1	8/25/2011	Section 1.3 ➢ Replaced Market Access Login screen shot Section 1.4 ➢ Replaced NYISO Manuals & Guides screen shot
5.2	12/14/2011	Section 1 ➢ Added ICAP Detail report to CSI reference Section 4.2.1 ➢ Updated figures 4-4, 4-5 Section 4.2.2.5

Version	Effective Date	Revisions
		➢ ICAP Detail Report - new section
5.3	2/28/2012	Section 1 ➢ Added Bad Debt Loss Detail report to CSI reference Section 4.2.1 ➢ Updated figures 4-4, 4-5 Section 4.2.2.6 ➢ Bad Debt Loss Detail Report - new section Section 5 ➢ Renamed title. Deleted content as it was outdated. Added reference to Market Participant User's Guide (MPUG) for current information Section 6 ➢ Deleted section as content was outdated. Current information is included in the MPUG
5.4	5/14/2012	Section 4, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7 ➢ Updated figures, corresponding references and screen displays
5.5	10/29/2013	Section 2.1.1 ➢ Updated Figure 2-1 Section 2.10 ➢ Removed Download Template for Generator Availabilities Section 2.10 (Renumbered) ➢ Added and Removed fields from Download Template for Generator PTS Results; updated the example to reflect the changes
5.6	10/31/2014	Section 2.1.1 ➢ Added clarification on dates in which data may be downloaded Section 4.2.1 Added clarification on dates in which data may be queried
5.7	10/29/2015	Section 4.2.2.3 ➢ Updated Adjustment Detail Report screenshot
5.8	04/25/17	Section 2.7.1 ➢ Updated data row content description for RS1 Net Annual Budget Charge and RS1 FERC Fee Charge
5.9	06/28/2018	Section 3 ➢ Added error messages
6.0	01/28/2019	Global ➢ Updated URL's, location names, and screen displays resulting from NYISO public website redesign Section 1.2 ➢ Added clarification
6.1	02/18/2020	Copyright Page ➢ Copyright date updated to 2020

Version	Effective Date	Revisions
		Global ➢ Updated location names and screen displays resulting from NYISO corporate logo redesign ➢ Updated dates and figures in Request File and Response File examples Section 2.2, 2.3, ➢ Modified content to address dual-channel generators ➢ Corrected order of fields in Response File – Data Detail (2) table when SZ_SUM is returned Section 2.4 ➢ Clarified the allowable upload parameter for all hours and added the maximum upload data rows ➢ Removed duplicate paragraph Section 2.7.1 ➢ Removed note regarding Version 0 Section 2.10 ➢ Modified data row heading components to accommodate ESR project change Section 2.12 ➢ Modified content to incorporate dual-channel generators Section 3 ➢ Expanded parameters for SDX-10015 error message ➢ Deleted SDX-20025 error message ➢ Added SDX-10020 for password expiration ➢ Deleted SDX-20015 error message ➢ Updated SDX-20018 message content ➢ Added SDX-20026 error message ➢ Added SDX-20210 for ESR project ➢ Added SDX-20713 error message ➢ Updated SDX-20801 to reflect decimal precision introduced with ESR project ➢ Updated SDX-20802 to reflect decimal precision introduced with ESR project ➢ Modified SDX-20803 to include participating ESR generator ➢ Modified SDX-20804 to include participating ESR generator Section 4.7.1.2 ➢ Modified narrative to differentiate between single channel and dual channel generators ➢ Modified reference to column heading names introduced with ESR project Section 4.7.1.3 ➢ Modified narrative to differentiate between single channel and dual channel generators ➢ Modified reference to column heading names introduced with ESR project

Version	Effective Date	Revisions
		➢ Replaced Figure 34 with updated error message introduced with ESR project
6.1	01/27/2021	Recertified with no revisions
6.2	06/08/2021	Section 2.10 ➢ Modified reference to column heading name introduced with Large Scale Solar On Dispatch project
6.2	12/05/2022	Recertified without revisions
6.3	09/08/2023	Global ➢ Updated throughout to correct spacing and formatting of text. Section 2.2 ➢ Added narrative which excludes Distributed Energy Resource (DER) Aggregations, including Single-Resource Type (SRT) Aggregations from using the TIE_GEN_SUBZONE_DATA upload template. Section 2.3 ➢ Added narrative that excludes Distributed Energy Resource (DER) Aggregations, including Single-Resource Type (SRT) Aggregations from using the TIE_GEN_SUBZONE_DATA download template. ➢ Removed Meter Verification download and all associated references, data fields, and examples. ➢ Updated Response File – Data Detail to align data field naming conventions with CSI. Section 2.6 ➢ Added narrative to indicate that Distributed Energy Resource (DER) Aggregations, including Single-Resource Type (SRT) Aggregations are included in the Meter Authority calculated subzone load. ➢ Updated Response File – Data Detail to align data field naming conventions with CSI. Section 2.10 ➢ Updated Response File – Data Detail to align data field naming conventions with CSI. Section 2.12 ➢ Added narrative that excludes Distributed Energy Resource (DER) Aggregations, including Single-Resource Type (SRT) Aggregations from using the DUAL_CHANNEL_GEN_DATA upload template. ➢ Updated Response File – Data Detail to align data field naming conventions with CSI. ➢ Updated page footer to align data field naming conventions with CSI. Section 2.3 ➢ Added narrative that excludes Distributed Energy Resource (DER) Aggregations, including Single-Resource Type (SRT) Aggregations from using the DUAL_CHANNEL_GEN_DETAIL download template. ➢ Updated Response File – Data Detail to align data field naming conventions with CSI. ➢ Updated page footer to align data field naming conventions with CSI.

Version	Effective Date	Revisions
		Section 3 ➢ Deleted SDX-2016 error message. ➢ Added SDX-20812 error message to reflect that Distributed Energy Resource (DER) Aggregations, including Single-Resource Type (SRT) Aggregations are not authorized to use SDX for upload/download of meter data. Section 4.7.1.1 ➢ Added narrative to indicate that Distributed Energy Resource (DER) Aggregations, including Single-Resource Type (SRT) Aggregations are included in the Meter Authority calculated subzone load. ➢ Updated Calculated Subzone Load Results page to show changes to column header labels. Section 4.7.1.2 ➢ Updated data field naming conventions to align with CSI. ➢ Added narrative to reflect what value is displayed in the MA Reported MWh column. ➢ Added narrative describing how DER Aggregation, including Single-Resource Type (SRT) Aggregation data is populated in the Subzone Load Detail page. ➢ Updated Subzone Load Detail Results page to show changes to column header labels. Section 4.7.1.3 ➢ Updated Gen/Tie Detail page to show changes to the query screen. ➢ Added narrative to reflect that DER Aggregations, including Single-Resource Type (SRT) Aggregations are included in the query search. ➢ Added narrative to reflect how MWh values are displayed for Dual channel generator data. ➢ Added narrative describing how DER and Single-Resource Type (SRT) Aggregation data is populated in the Gen/Tie Detail page. ➢ Updated Gen/Tie Detail Results page to show changes to column header labels.
6.4	12/05/2024	Recertified
7.0	05/08/2026	Recertified Section 2 ➢ Removal of entire SDX Upload/Download Templates section Section 3 ➢ Removal of entire Upload/Download Error Messages section

1. Introduction

The Settlement Data Applications described in this User's Guide include the following:

- Customer Settlements Interface (CSI)
    - Consolidated Invoice Reports (Invoice Summary, Invoice Detail, Adjustment Detail, Prepay Detail, ICAP Detail, Bad Debt Loss Detail)
    - Daily Reconciliation
    - Global Rates
    - TSC/NTAC Rates
    - Working Capital
    - Metering Reconciliation (Calculated Subzone Load, Subzone Load Detail, Gen/Tie Detail, Wholesale Load Bus Detail)
- Bidding and Scheduling Administrator Web Pages for Metering Reconciliation
    - Metering Generators
    - Metering Loads
    - Metering Ties
    - Metering Subzones

1.1. User Account Overview

The NYISO MIS provides Market Participants (MPs) with significant flexibility in establishing user accounts to meet the specific needs of each organization. The types of actions allowed have been developed over time with input from MPs. The Settlement Data Applications user accounts are built on top of the MIS and offer similar flexibility to what has been offered in the other areas. Understanding some of the basics will help an MP establish a plan for how it wants to manage its account.

Each of the Meter Authorities (MA) (as defined in the *Revenue Metering Requirements Manual*, available at https://www.nyiso.com/manuals-tech-bulletins-user-guides) has a Meter Authority Administrator. The MA Administrator manages for the MP, the reporting and/or analysis of the metered data reported to the NYISO. The Meter Authority Administrator[1] responsible for establishing accounts should understand the following points:

- The individual accounts are configured and maintained by their Meter Authority Administrator(s) (individuals within their own company) via screens on the NYISO Marketplace (refer to Section 6 of the *Market Participants User's Guide (MPUG)*, available from the NYISO Web site at the following URL:
  https://www.nyiso.com/documents/20142/3625950/mpug.pdf.

Users need to be authorized by their Meter Authority Administrator(s) to access specific items such as gens, ties, and loads to see data.

Users must be authorized to submit various types of data such as meter data. In order to submit meter data, users need authorizations for both submitting the meter data, and for the gen, tie, or load for which the data is submitted.

The permissions established for users support Bidpost (upload/download), Marketplace (Web pages) and Customer Settlements Interface (Web pages).

[1] ***Meter Authority Administrator*** – Individual or Individuals authorized by their Meter Authority to submit and/or access metering data.

1.2. Meter Authority Administrator Account Configuration and Management

The following list includes recommendations for Account Configuration and Management:

1. The Meter Authority Administrator will establish an account for upload/download that will not be shared with anyone and will only be used by the organization's automated program. The Meter Authority Administrator will assign the account with each of the ties, gens, and loads authorized to their organization, and check the "Submit Meter Data" authorization flag. The NYISO has configured which ties, gens, subzones, and loads belong to which MAs.
2. For each Web user, the Meter Authority Administrator will create an individual account authorized to their subzones with the "Submit Meter Data" flag checked. No ties, gens, or loads are authorized in this example.
3. If these Web users have an account so that they can verify the subzone load in item 2 above, then that account will allow them to see all tie, gen, and subzone data such that no additional account authorizations are needed. As these accounts have the "Submit Meter Data" authorization flag turned on, the accounts are not required to be authorized to any gens or ties. If the Web user does not already exist, the Meter Authority Administrator will create an individual account authorized to their subzones. If it is only specific gens or ties the user should see, they would be authorized to a subset of the list by the Meter Authority Administrator.
4. For each Web user, the Meter Authority Administrator will create an individual account authorized to the loads or subset of loads they should be able to see. If this was created under item 3 (not item 2 to verify subzone load) to see ties, gens, and subzone data, then the loads can be added and the user will have one account. If this user was created under item 2, then a second account would need to be provided.
5. The MIS maintains individual user accountability on accounts provided the users do not share them. There is no way for the NYISO to ensure that users are not sharing accounts, but the NYISO encourages MAs to put into place their own policies against this.

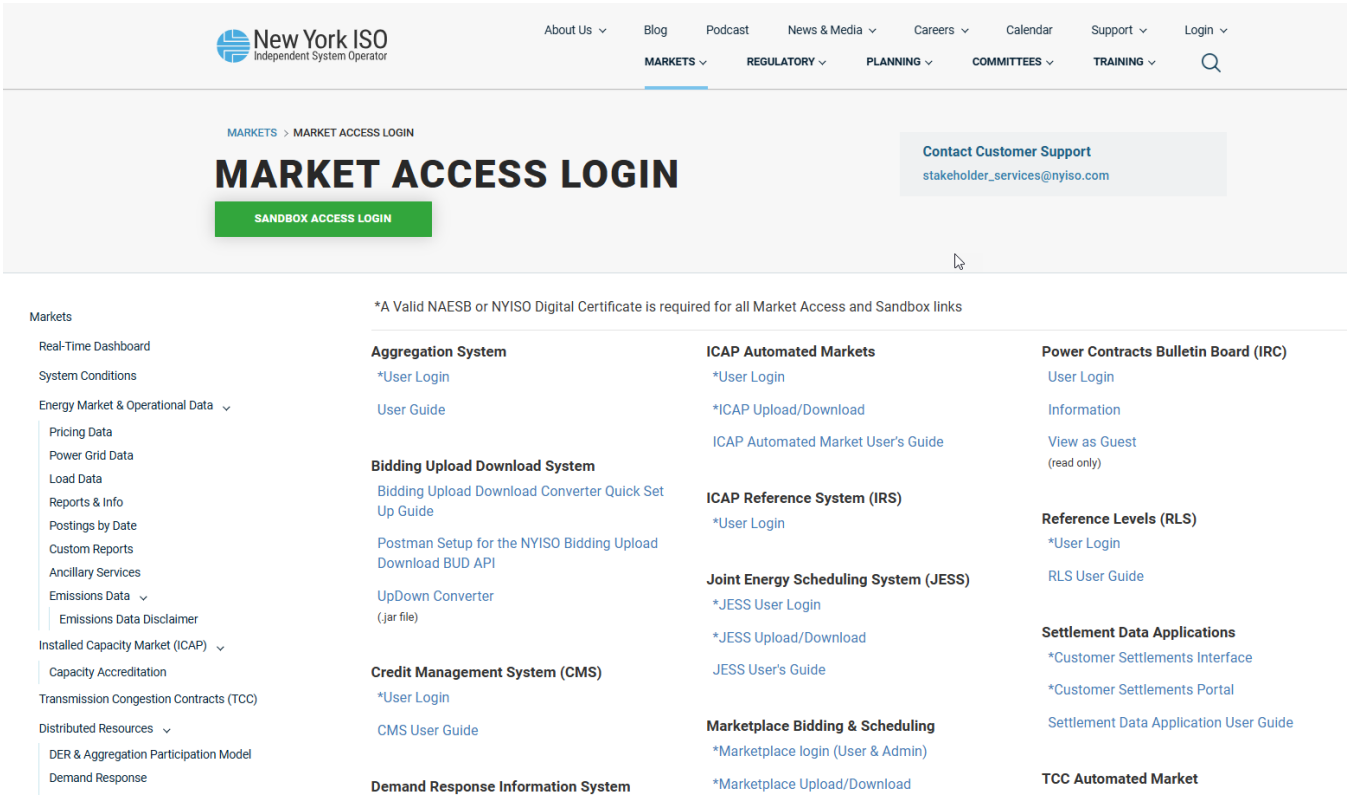
1.3. Market Access Login Web Page

All users may access the NYISO's Bidding and Scheduling Web address:

https://www.nyiso.com/market-access-login

From this page, users will find access to the Settlement Data Application links.

Figure 1: Market Access Login Web Page



1.4. NYISO User Guide Web Page

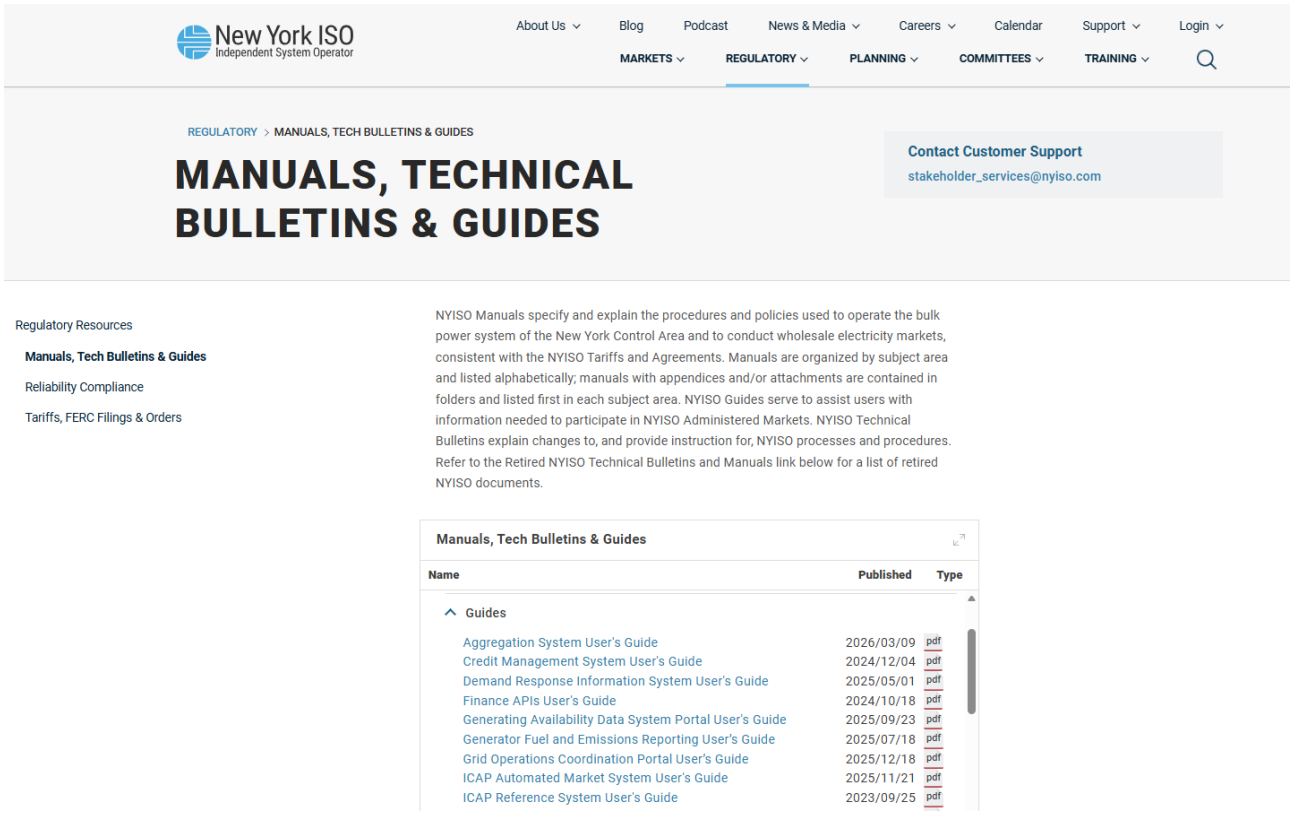
The NYISO "Manuals & Guides" Web page has a link to the *Settlement Data Applications User Guide*. To view and select this link:

1. Point your browser to the NYISO home page at the following URL:

   https://www.nyiso.com

2. Position your mouse over the **Regulatory** dropdown menu and choose **Manuals, Tech Bulletins & Guides**.
   The NYISO **Manuals, Tech Bulletins & Guides** Web page is displayed.
3. On the **Manuals, Tech Bulletins & Guides** page, activate the **Guides** drop down menu.
   A link to this User's Guide is displayed in the **Guides** section of the Web page.

Figure 2: NYISO Manuals, Tech Bulletins & Guides Web page



2. Using Customer Settlements Interface

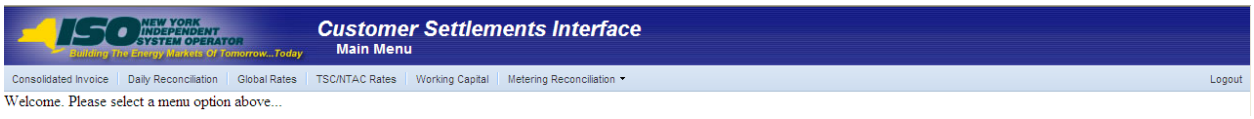
The Customer Settlements Interface (CSI) Main Menu provides authorized MPs with access to their invoice reports, daily reconciliation data, metering reconciliation data, working capital data, and the global, TSC and NTAC rates for which they have permissions.

Users will access the CSI using the same MIS login and password that is used to access Marketplace Bidding and Scheduling.

Figure 3: User Login

The Customer Settlements Interface **subheading** will display the current option selected by the user.

Figure 4: CSI Main Menu



2.1. Consolidated Invoice

The Consolidated Invoice option will provide the user with the choice of requesting their invoice summary or one of their invoice detail reports.

2.1.1. Consolidated Invoice Query

Figure 5: Invoice Reports - Query

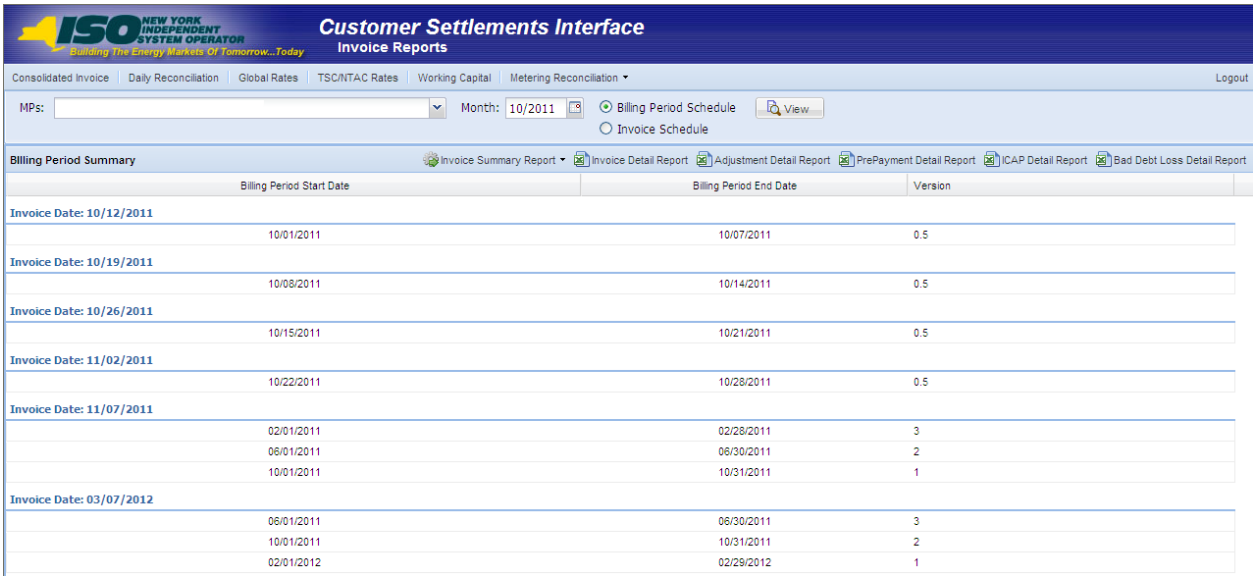
The query for all invoice reports include the selection of the MP organization, the month and either the **Billing Period Schedule** or the **Invoice Schedule**. MPs may query Consolidated Invoice data for the three year period ending with the current month.

Billing Period Schedule (default): provides MPs with the **invoice dates which include the selected billing month or portions thereof.** This includes invoices which have already been issued and may include the current invoice. This will not include future invoices.

Invoice Schedule: provides MPs with the **invoice dates which occur in the month selected**. This includes invoices which have already been issued and may include the current invoice. This will not include future invoices.

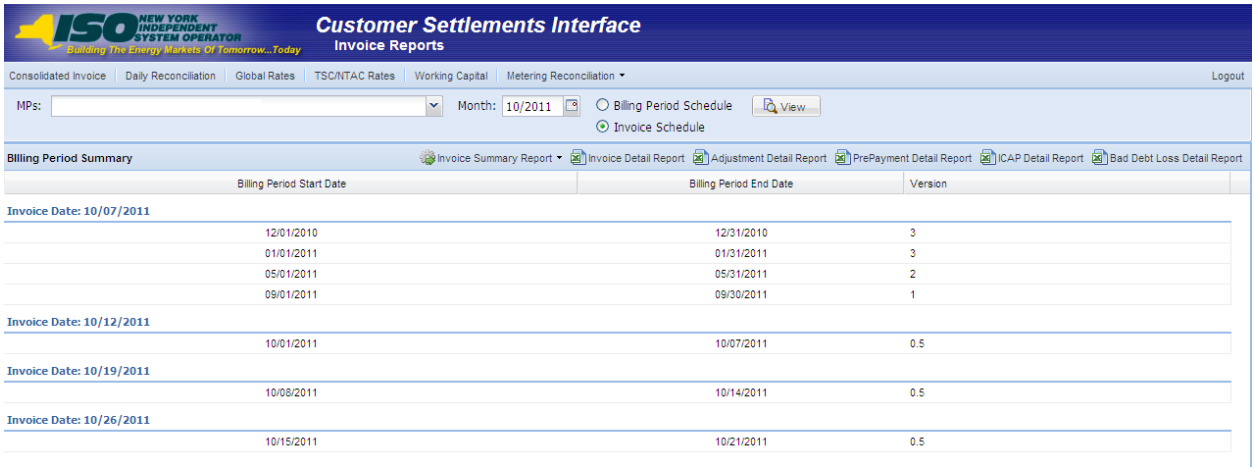
The user enters the filter criteria and clicks on the **View** button. The screen will be refreshed to include the invoices corresponding to the selection criteria. The user will be able to view all applicable invoice dates and their assigned billing periods. Each billing period listed will include their billing period start date, billing period end date and billing period version.

Figure 6: Invoice Reports - Query Response - Billing Period Schedule



Billing Period Start Date	Billing Period End Date	Version
Invoice Date: 10/12/2011		
10/01/2011	10/07/2011	0.5
Invoice Date: 10/19/2011		
10/08/2011	10/14/2011	0.5
Invoice Date: 10/26/2011		
10/15/2011	10/21/2011	0.5
Invoice Date: 11/02/2011		
10/22/2011	10/28/2011	0.5
Invoice Date: 11/07/2011		
02/01/2011	02/28/2011	3
06/01/2011	06/30/2011	2
10/01/2011	10/31/2011	1
Invoice Date: 03/07/2012		
06/01/2011	06/30/2011	3
10/01/2011	10/31/2011	2
02/01/2012	02/29/2012	1

Figure 7: Invoice Reports - Query Response - Invoice Schedule



Billing Period Start Date	Billing Period End Date	Version
Invoice Date: 10/07/2011		
12/01/2010	12/31/2010	3
01/01/2011	01/31/2011	3
05/01/2011	05/31/2011	2
09/01/2011	09/30/2011	1
Invoice Date: 10/12/2011		
10/01/2011	10/07/2011	0.5
Invoice Date: 10/19/2011		
10/08/2011	10/14/2011	0.5
Invoice Date: 10/26/2011		
10/15/2011	10/21/2011	0.5

2.1.2. Invoice Reports

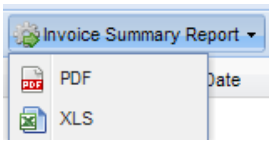
Following the query response in the previous section, the user may elect to view the invoice summary report or one of the invoice detail reports.

In order to view any of the invoice reports, the user will select an invoice by highlighting the billing periods associated with the invoice desired, and click on one of the report options.

2.1.3. Invoice Summary Report

Users that click on the Invoice Summary Report button will have an option to choose the format output of PDF or XLS.

Figure 8: Invoice Summary Report - Report Format Selection



After the user clicks on the **PDF** or **XLS** button, the resulting report will be displayed to the user in the format specified.

Figure 9: Invoice Summary Report - PDF Output

NYISO Market Participant Invoice Dated

Market Participant Name:

Invoice Number:
FBC Posting Date:
Invoice Issued:
Payments Due To The NYISO On:
Total Charge to Market Participant:

	Sep-2011 Initial Settlement Version 1	May-2011 4 Month Settlement Version 2	Dec-2010 Final Bill Close-out Version 3	Jan-2011 Final Bill Close-out Version 3	Total
Monthly Payments/(Charges)					
Power Supplier	$0.00	$0.00	$0.00	$0.00	$0.00
Transmission Customer	$0.00	$0.00	$0.00	$0.00	$0.00
Transmission Congestion Contract Holder	$0.00	$0.00	$0.00	$0.00	$0.00
Transmission Owner	$0.00	$0.00	$0.00	$0.00	$0.00
Demand Response Customer	$0.00	$0.00	$0.00	$0.00	$0.00
Virtual Bidding Customer	$0.00	$0.00	$0.00	$0.00	$0.00
Settlement Subtotal	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Previous Version Settlement Subtotal	$0.00	$0.00	$0.00	$0.00	$0.00
Total Current Settlement Subtotal	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Adjustments					
Interest Payment to (Charge to) Market Participant					
Current Invoice Payment to (Charge to) Market Participant	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Prepayments					
Net Payment to (Charge to) Market Participant	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Working Capital Cash Transactions					$0.00
ICAP Transaction to Market Participant					$0.00
Bad Debt Loss					$0.00
				Invoice Total	**$0.00**

Instructions for making electronic payments to New York Independent System Operator, Inc.
Key Bank, N.A.
66 South Pearl Street
Albany, NY 12207
ABA#
Account#

Overpayment*	$0.00
Past Due Balance*	$0.00
Total Charge to Market Participant	**$0.00**

*The amounts of the Overpayment and Past Due Balances may not reflect payments made after the Requital date of the previously issued invoice.

Figure 10: Invoice Summary Report - XLS Output

NYISO Market Participant Invoice Dated

Market Participant Name:

Invoice Number:	
FBC Posting Date:	
Invoice Issued:	
Payment Due to the NYISO:	
Total Charge to Market Participant:	

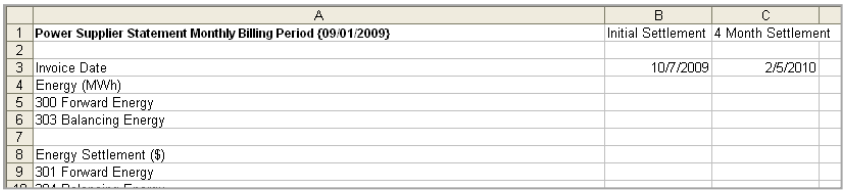
	Apr-2012 Initial Settlement Version 1	Dec-2011 4 Month Settlement Version 2	Aug-2011 Final Bill Close-out Version 3	Total
Monthly Payments / (Charges)				
Power Supplier	$0.00	$0.00	$0.00	$0.00
Transmission Customer	$0.00	$0.00	$0.00	$0.00
Transmission Congestion Contract Holder	$0.00	$0.00	$0.00	$0.00
Transmission Owner	$0.00	$0.00	$0.00	$0.00
Demand Response Customer	$0.00	$0.00	$0.00	$0.00
Virtual Bidding Customer	$0.00	$0.00	$0.00	$0.00
Settlement Subtotal	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Previous Version Settlement Subtotal	$0.00	$0.00	$0.00	$0.00
Total Current Settlement Subtotal	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Adjustments				
Interest Payment to (Charge to) Market Participant				
Current Invoice Payment (Charge to) Market Participant	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Prepayments				
Net Payment to (Charge to) Market Participant	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Working Capital Cash Transactions				$0.00
ICAP Transaction to Market Participant				$0.00
Bad Debt Loss				$0.00
			Invoice Total	**$0.00**
Instructions for making electronic payments to New York Independent System Operator, Inc.				
Key Bank, N.A.			Overpayment*	$0.00
66 South Pearl Street			Past Due Balance*	$0.00
Albany, NY 12207				
ABA#				
Account#				
		Total Charge to Market Participant		**$0.00**

* The amounts of the Overpayment and Past Due Balances may not reflect payments made after the Requital date of the previously issued invoice.

2.1.4. Invoice Detail Report

Users that click ON the **Invoice Detail Report** will have their requested report displayed in XLS format.

Figure 11: Invoice Detail Report in XLS



	A	B	C
1	**Power Supplier Statement Monthly Billing Period (09/01/2009)**	Initial Settlement	4 Month Settlement
2			
3	Invoice Date	10/7/2009	2/5/2010
4	Energy (MWh)		
5	300 Forward Energy		
6	303 Balancing Energy		
7			
8	Energy Settlement ($)		
9	301 Forward Energy		

2.1.4.1. Adjustment Detail Report

Users that click on the **Adjustment Detail Report** will have their requested report displayed in XLS format.

Figure 12: Adjustment Detail Report in XLS

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	NYISO Market Participant Adjustment Details - Invoice Dated July 07, 2015															
2	Market Participant Name:													Invoice Number: 1038-20150707		
3																
4	**Adjustment ID**	**Billing Month**	**Initial Banking Date**	**Allocation Start Time**	**Allocation End Time**	**Allocation Basis**	**Total MWh**	**Org MWh**	**Total Allocation Amount**	**Adjustment Amount**	**Interest Amount**	**Total Adjustment**	**Adjustment Type**	**Reversing Flag**	**Source Adjustment ID**	**Additional Detail**
5	No data available for this report															
6	**Total**									**$0.00**	**$0.00**	**$0.00**				
7																

2.1.4.2. Pre-Payment Detail Report

Users that click on the **Pre-Payment Detail Report** will have their requested report displayed in XLS format.

Figure 13: Pre-Payment Detail Report in XLS

	A	B
1	NYISO Market Participant Prepayment Details - Invoice Dated January 08, 2010	
2	Market Participant Name:	Invoice Number:
3		
4	**Prepayments**	
5	**Prepayment Type**	**Prepayment Amount**
6	No data available for this report	
7		
8	**Total Prepayments**	**$0.00**
9		

2.1.4.3. ICAP Detail Report

Users that click on the **ICAP Detail Report** will have their requested report displayed in XLS format. This report is only available for billing periods October 2011 or later.

Figure 14: ICAP Detail Report in XLS - Flexible Billing Period

NYISO Market Participant ICAP Details - Invoice Dated October 12, 2011						
Market Participant Name:					Invoice Number:	
ICAP Detail - Invoice with Flexible Billing Period						
Flexible Billing Period of 10/01/11 - 10/07/11						
ICAP Auction Totals ($)	*Divided by*	Number of Days in October	*Multiplied by*	Number of Days in flexible Billing period	*Equals*	**ICAP Transactions/Payment to Market Participant ($)**
No ICAP data available for this Invoice						

Figure 15: ICAP Detail Report in XLS - Initial Month Billing Period

NYISO Market Participant ICAP Details - Invoice Dated November 07, 2011				
Market Participant Name:			Invoice Number:	
ICAP Detail - Invoice with Initial Month Billing Period				
Flexible Invoice Date	Billing Period Start Date	Billing Period End Date	ICAP Transactions/Payment to Market Participant ($) from Previous Invoices	
10/12/2011	10/1/2011	10/7/2011		
10/19/2011	10/8/2011	10/14/2011		
10/26/2011	10/15/2011	10/21/2011		
11/2/2011	10/22/2011	10/28/2011		
		Flexible Total		
ICAP Auction Totals with Load Shift and True-Up ($)	*minus*	Flexible Total	*Equals*	**ICAP Transactions/Payment to Market Participant ($)**
No ICAP data available for this Invoice				

2.1.4.4. Bad Debt Loss Detail Report

Users that click on the **Bad Debt Loss Detail Report** will have their requested report displayed in XLS format. This report is only available for billing periods March 2012 or later.

Figure 16: Bad Debt Loss Detail Report in XLS

NYISO Market Participant Bad Debt Loss Details - Invoice Dated October 07, 2011

Market Participant Name:	Invoice Number:

Bad Debt Loss

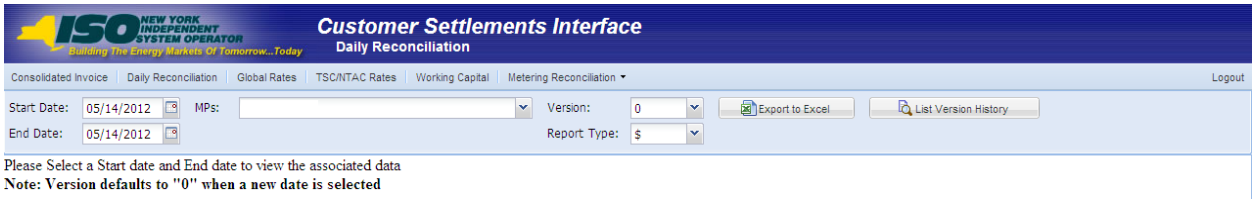
BDL Invoice Default Date	BDL Billing Period Start Date	BDL Billing Period End Date	BDL Amount	BDL Description
No data available for this report				

2.2. Daily Reconciliation

The **Daily Reconciliation** option will provide the user with their daily reconciliation report.

2.2.1. Daily Reconciliation Query

Figure 17: Daily Reconciliation Query Screen



The query for daily reconciliation includes following.

Start Date: start date of the request

End Date: end date of the request

- Start date and end date must be within the same calendar month
- To request a single day, enter the same start date and end date
- When requesting multiple days, the data will be summed for the date range

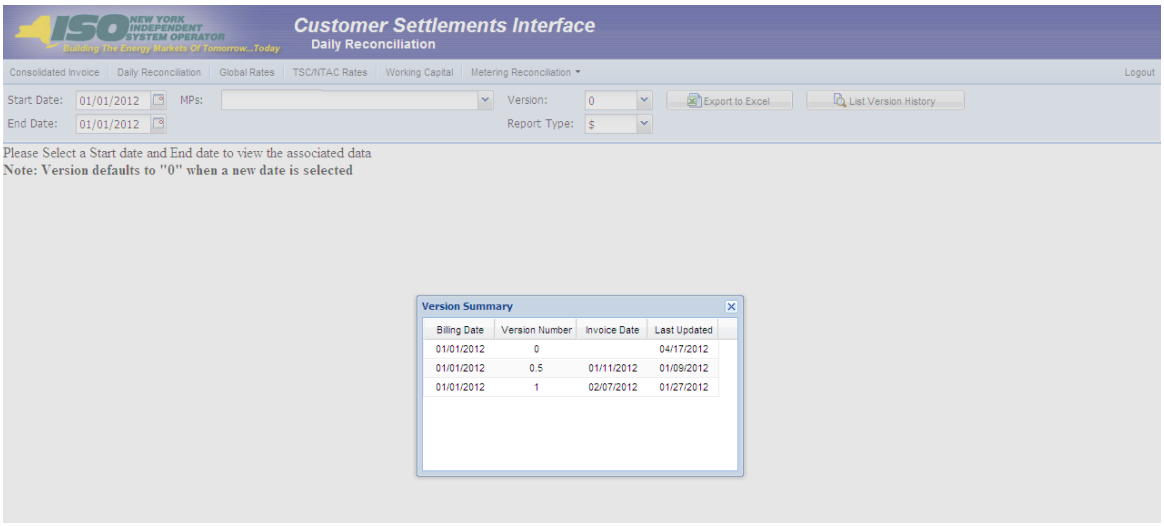
MPs: listing of valid MP organizations accessible by the user

Version: invoice version of the data that is available for the date range selected

List Version History- provides user with all versions available within the start and end date range (Note: this is no longer a required step)

Version 0 in the daily reconciliation will include the latest information available for any billing day. However, users should look at the update dates that show up in the billing versions display. Once rebills have started for a period, that period could contain a mix of version runs.

Figure 18: List Versions option



Report Type: options include $ (for cash flow reconciliation) or MWh (for transmission service reconciliation)

The user enters the filter criteria and clicks on the **Export to Excel** button. The requested data will be displayed in an XLS file.

Figure 19: Daily Reconciliation Report Example

SETTLEMENT RECONCILIATION FOR: 01/01/2012 to 01/01/2012 version 0 Report Run Date: Mon May 14 2012 16:04:27 GMT

Billing Code		Income		Billing Code	
70101	DAM LSE Internal LBMP Energy	0		30101	DAM Internal PS LBMP Energy Purcha
70201	DAM LSE Internal LBMP Losses	0		30102	DAM Internal PS LBMP Losses Purcha
70301	DAM LSE Internal LBMP Congestion	0		30103	DAM Internal PS LBMP Congestion Pu
75901	DAM External TC LBMP Energy Sales Revenue	0		75903	DAM External PS LBMP Energy Purch
76001	DAM External TC LBMP Losses Sales Revenue	0		76003	DAM External PS LBMP Losses Purch
76101	DAM External TC LBMP Congestion Sales Revenue	0		76103	DAM External PS LBMP Congestion P
75902	DAM Replacement LBMP Energy Sales Revenue Due to Curtailed Imports	0		30201	DAM NYISO Bid Production Cost Guar
76002	DAM Replacement LBMP Losses Sales Revenue Due to Curtailed Imports	0		76801	DAM NYISO Bid Production Cost Guar
76102	DAM Replacement LBMP Congestion Sales Revenue Due to Curtailed Imports	0		77301	DAM Virtual Supply LBMP Energy Exp
77101	DAM Virtual Load LBMP Energy Sales	0		77302	DAM Virtual Supply LBMP Losses Exp
77102	DAM Virtual Load LBMP Losses Sales	0		77303	DAM Virtual Supply LBMP Congestion

2.3. Global Rates

The Global Rates option will provide authorized users with global rate data.

2.3.1. Global Rates Query

The query for Global Rates include following.

Global Rate Types: select the name of the Global Rate from a drop-down listing

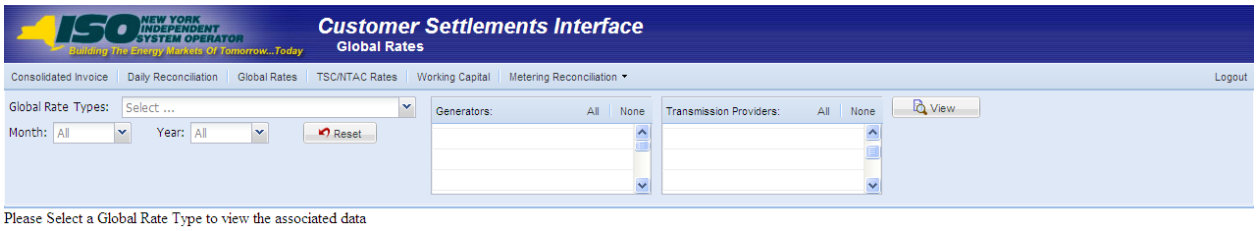
Month: Month of Global Rate

Year: Year of Global Rate

Generators: select one or more Generators from a drop down listing, where applicable

Transmission Providers: select one or more Transmission Providers from a drop down listing, where applicable

Figure 20: Global Rates Query Screen



The user enters the filter criteria and clicks on the **View** button. The screen will be refreshed to include the requested data.

2.4. TSC/NTAC Rates

The TSC/NTAC Rates option will provide authorized users with the TSC/NTAC data.

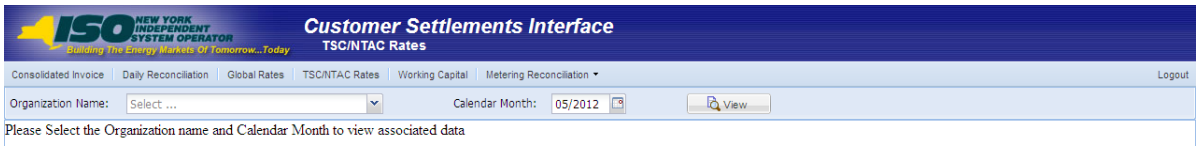
2.4.1. TSC/NTAC Query

The query for TSC/NTAC include following.

Organization Name: select the user authorized organization name

Calendar Month: Calendar Month of TSC/NTAC rates

Figure 21: TSC/NTAC Query Screen



The user enters the filter criteria and clicks on the **View** button. The screen will be refreshed to include the requested data. Where applicable, MPs with appropriate permissions will be able to edit the displayed rates.

2.5. Working Capital

The Working Capital option will provide authorized users with their Working Capital data.

2.5.1. Working Capital Query

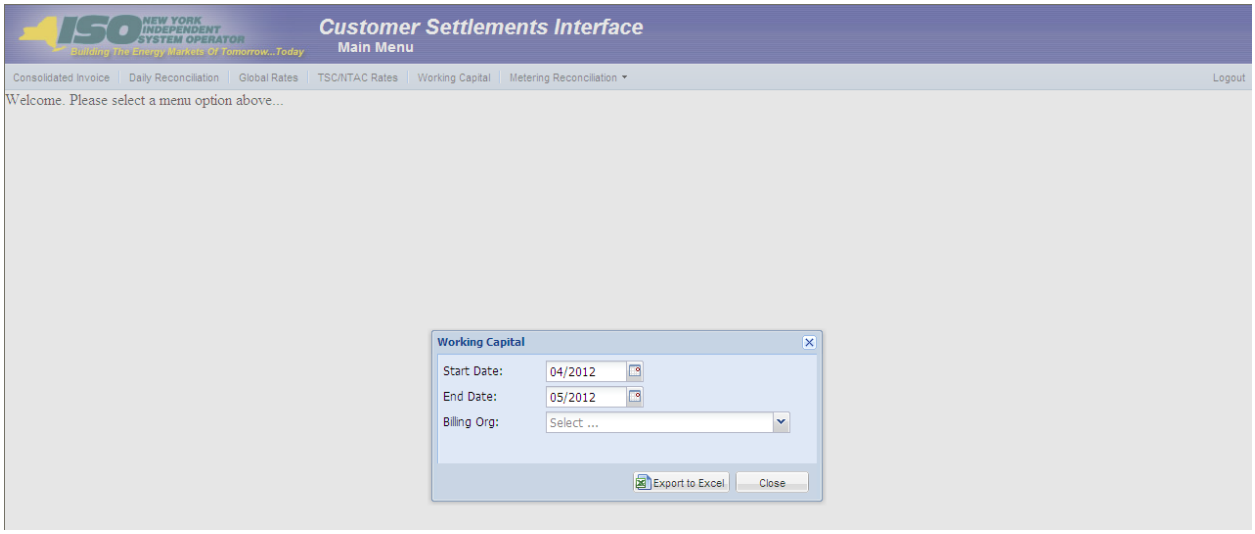
The query for Working Capital includes the following.

Start Date: select the start date of the query

End Date: select the end date of the query

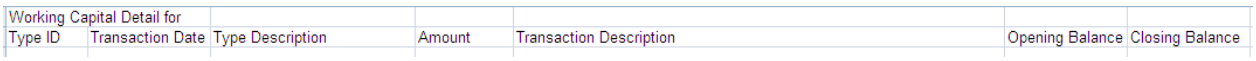
Billing Org: select the user authorized organization

Figure 22: Working Capital Query Screen



The user enters the filter criteria and clicks on the **Export to Excel** button. The requested data will be displayed in an XLS file. To cancel out of the menu option, the user will click on the **Close** Button.

Figure 23: Working Capital Detail Report



2.6. Metering Reconciliation

Tie line, generator, subzone, and load bus data may be accessed, reviewed, and updated via the Metering Reconciliation option.

2.6.1. Metering Reconciliation Reports

After the user clicks on the **Metering Reconciliation** button, a drop down list with the following report options is displayed:

Calculated Subzone Load

Subzone Load Detail

Gen/Tie Detail

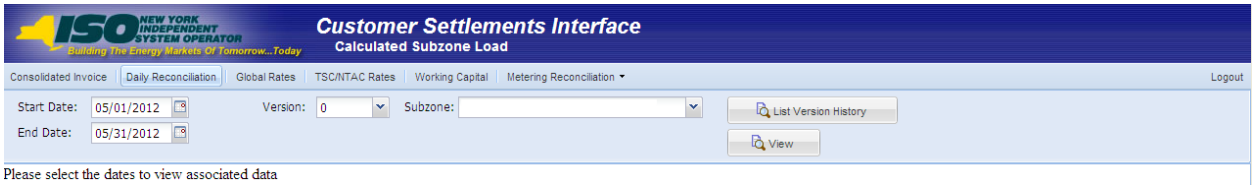
Wholesale Load Bus Detail

Figure 24: Metering Reconciliation Report Option Screen

2.6.1.1. Calculate Subzone Load Report

After the user clicks on the **Calculate Subzone Load** button a query screen will be displayed to the user.

Figure 25: Calculated Subzone Load Query



The *Calculated Subzone Load* query allows a Meter Authority to view their NYISO calculated subzone load for a specific month. Contributions from Aggregations will be included in the calculated subzone load. The query page includes a drop-down menu that is populated with all subzones owned by the Meter Authority. The user has the ability to choose a single subzone, some or all of their subzones by selecting the appropriate choice from the drop-down menu.

The Calculated Subzone Load query page enables the user to select the following query options:

Start Date: Select the start date of the query

End Date: Select the end date of the query

Version: Select the version of the query

List Version History - provides user with all versions available within the start and end date range (Note: this step is not required to retrieve the report.)

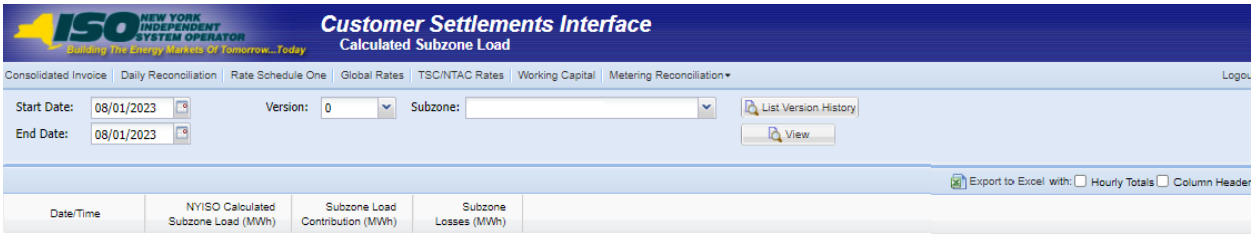
Subzone: Select the subzone of the query

The user enters the filter criteria and clicks on the **View** button. The screen will be refreshed to include the requested data.

After the query parameters have been selected, the *Calculated Subzone Load* results page is displayed. For each day in the specified data range, the NYISO-calculated Subzone Load data is displayed, sorted by hour. If there are multiple days in the date range, each day will be displayed separately.

The data detail for the Tie/Gen Total/MWh value is accessible by selecting the **Date/Time** link for that hour.

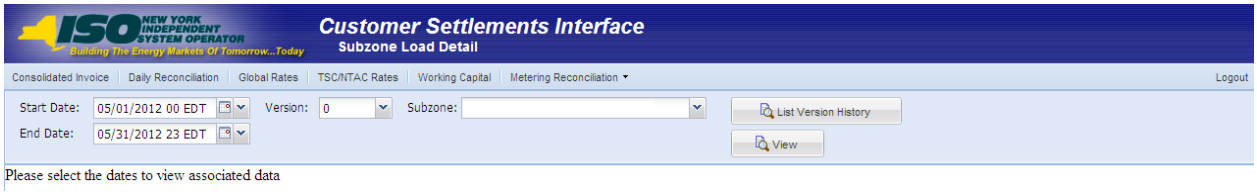
Figure 26: Calculated Subzone Load Results page



2.6.1.2. Subzone Load Detail Report

After the user clicks on the **Subzone Load Detail Report** button a query screen will be displayed to the user.

Figure 27: Subzone Load Detail Query



The *Subzone Load Detail* query page allows a Meter Authority to view the generator and tie-line data used in the NYISO subzone load calculation.

The report includes a drop-down menu that is populated with all subzones owned by the Meter Authority. The user has the ability to choose a single, multiple, or all of their subzones by selecting the appropriate choice from the drop down menu.

The Subzone Load Detail query page enables the user to select the following reporting options:

Start Date: Select the start date of the query

End Date: Select the end date of the query

Version: Select the version of the query

List Version History - provides user with all versions available within the start and end date range (Note: this step is not required to retrieve the report.)

Subzone: Select the subzone of the query

The user enters the filter criteria and clicks on the **View** button. The screen will be refreshed to include the requested data. Each hour included in the report will be separated by page breaks with their own heading. For each hour, every tie and generator for that subzone will be displayed.

For clear distinction between dual channel (LESR Generator Type or those Generators which have the ESR attribute) and single channel generators:

Single channel generator and tie-line data is populated in the Subzone Load Contribution MWh, MA Reported MWh, MA Reported Injection MWh, and/or Telemetry MWh columns.

Dual channel generator data is populated in the Subzone Contribution MWh, MA Reported Injection MWh, Telemetry Avg Actual Injection MWh, MA Reported Withdrawal MWh, and/or the Telemetry Avg

Actual Withdrawal MWh columns. The net value of the MA Reported Injection MWh and the MA Reported Withdrawal MWh is populated in the MA Reported MWh column.

Aggregation data is populated in the Subzone Contribution MWh, MA Reported Injection MWh, Telemetry Avg Actual Injection MWh, MA Reported Withdrawal MWh, Telemetry Avg Actual Withdrawal MWh, MA Reported Demand Reduction MWh, and/or the Telemetry Demand Reduction MWh columns. The net value of the MA Reported Injection MWh and the MA Reported Withdrawal MWh is populated in the MA Reported MWh column.

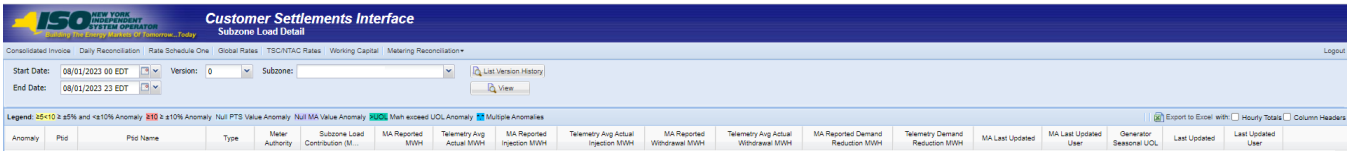
In addition, the Subzone Contribution (MWh) is displayed with the flow multiplier used in the NYISO calculated subzone load calculation.

The Gen, Tie and Gen/Tie totals for the hour is included at the bottom of each hour section.

From the *Subzone Load Detail* page, the user is able to update their reported values for the ties or generators that they own. Clicking on the **Submit** button at the bottom of the display will submit the updated values.

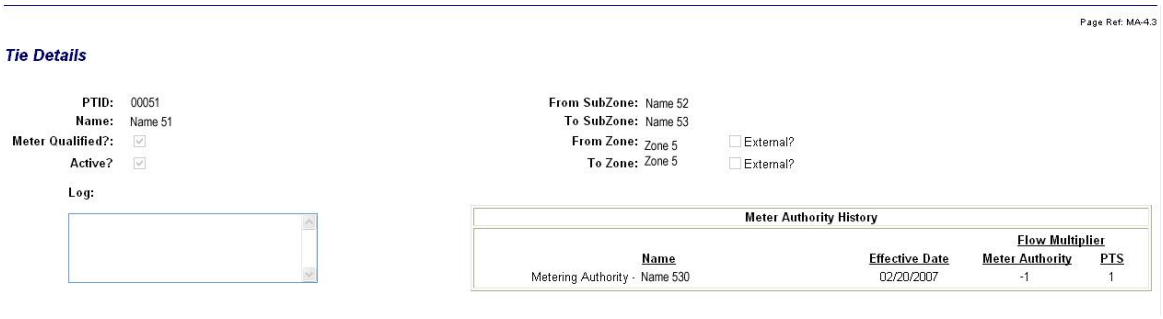
The Subzone Contribution (MWh) column will only be populated for PTIDs that are included in the subzone load calculation. For example, the MWhs scheduled by Demand Response Providers (DRPs) are not included in the subzone load calculation; therefore, the Subzone Contribution (MWh) column will be blank for these units. In addition, the MA Reported MWh values for the single metered point for grouped units will be zero in the Subzone Contribution (MWh) column but the MA Reported MWh values for each individual unit in the grouped unit will be populated.

Figure 28: Subzone Load Detail results page



The user can view details of a particular generator, tie, or subzone by clicking on the PTID name. An example of the detail view for a tie line is shown in Figure 32, below.

Figure 29: Tie Details page



Flow Multiplier for Tie Lines

The following information details how the Flow Multiplier (sign convention) value is used in the subzone load calculation for tie lines.

Meter Authority (MA) value: used by the application for determining the energy flow of the MA supplied tie-line data. The sign convention is necessary in determining the tie line component of the subzone load calculation.

To Subzone: When the subzone for which the load is being calculated is specified as the 'To' subzone, then the ***'opposite value'*** of what is stored in the Flow Multiplier Meter Authority column, is multiplied by the MA MWh value.

From Subzone: When the subzone for which the load is being calculated is specified as the 'From' subzone, then the ***'value'*** stored in the Flow Multiplier Meter Authority column, is multiplied by the MA MWh value.

PTS value: In the absence of MA supplied data, the PTS data is used in the subzone load calculation. In these cases, the sign convention of the PTS data must first be converted to the same sign as the MA data. Then the same MA determination is performed as is defined in the previous section.

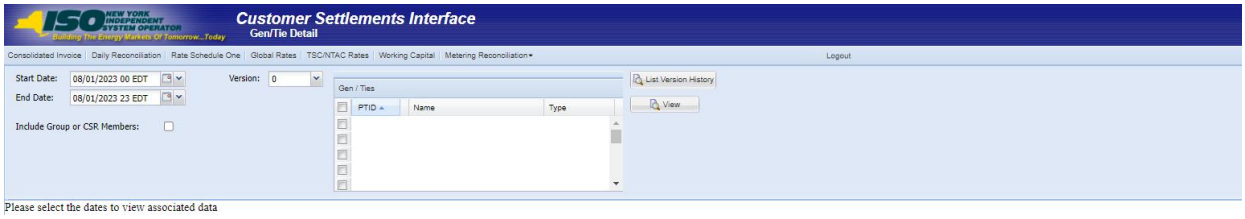
1st Step: The PTS data is converted to the MA sign convention by multiplying the PTS MWh value by the Flow Multiplier PTS column value.

2nd Step: Using the new MWh value resulting from the previous step, apply the same steps as listed in the MA section.

2.6.1.3. Gen/Tie Detail Report

After the user clicks on the **Gen/Tie Detail Report** button a query screen will be displayed to the user.

Figure 30: Gen/Tie Detail Query



The *Gen/Tie Detail* report allows a Meter Authority to focus on grouped or individual generators, tie-lines, or Aggregations. The *Gen/Tie Load Detail* query page includes a drop-down menu of all generators, ties, and Aggregations for which the user has update authorization.

The Gen/Tie Detail query page enables the user to select the following reporting options:

Start Date: Select the start date of the query

End Date: Select the end date of the query

Version: Select the version of the query

List Version History - provides user with all versions available within the start and end date range (Note: this step is not required to retrieve the report.)

- **Gen/Tie**: Select the authorized generators, tie lines Aggregations; a selection of more than one Gen/Tie is permitted only when the Start Date and End Date are the same day. Advanced filtering will automatically scroll the listing to the first Gen/Tie entry, which corresponds to the letter or number typed by the user in the Gen/Tie drop down listing.
- To select all Gen/Ties, click the **All** button for all subzones in the listing.
- To select no Gen/Ties, click the **None** button to clear all subzones in the listing
- To select one or more Gen/Ties:
  - either click each desired Gen/Tie individually, or
  - press the **CTRL** key then click each desired Gen/Tie in the list, or
  - press the **SHIFT** key then click the first and last Gen/Tie to be included in the report.

Gen/Tie – Type

- To display all Gens, Ties, and Aggregations, click the **All** radio button.
- To display Generators only, click the **Generators** radio button.
- To display Ties only, click the **Ties** radio button.
- To display Aggregations click the **Aggregations** radio button.

Gen/Tie – Sort by

- To sort the selection list by PTID, click the **PTID** radio button.
- To sort the selection list by PTID name, click the **Name** radio button.

The user enters the filter criteria and clicks on the **View** button. The report output only displays the generators, ties, or Aggregations that were selected, and provides the user with the ability to update the Meter Authority reported MWh. Generators or metering authorities creating queries for tie line, generator, and sub-zone hourly MW data for grouped units should note that the data returned from such query to a Web page will appear ordered first by the single metered PTID for the grouped unit and, secondly, by each individual PTID in the grouped unit.

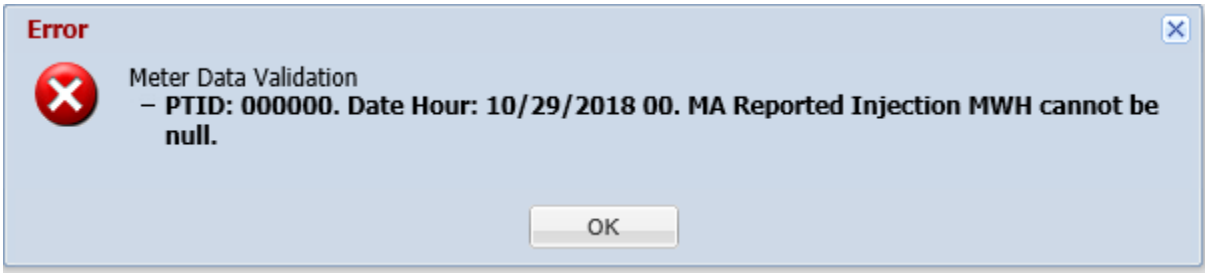
For clear distinction between dual channel (LESR Generator Type or those Generators which have the ESR attribute) single channel generators and Aggregations:

Single channel generator and tie-line data is populated in the MA Reported MWh, MA Reported Injection MWh, and/or Telemetry MWh columns.

Dual channel generator data is populated in the MA Reported Injection MWh, Telemetry Avg Actual Injection MWh, MA Reported Withdrawal MWh, and/or the Telemetry Avg Actual Withdrawal MWh columns. The net value of the MA Reported Injection MWh and the MA Reported Withdrawal MWh is populated in the MA Reported MWh column. When adding or modifying dual channel meter data, the form requires the user to enter a value for both the Injection MWh and the Withdrawal MWh. When the user does not enter a value in both fields, an error message will be displayed.

Aggregation data is populated in the Subzone Contribution MWh, MA Reported Injection MWh, Telemetry Avg Actual Injection MWh, MA Reported Withdrawal MWh, Telemetry Avg Actual Withdrawal MWh, MA Reported Demand Reduction MWh, and/or the Telemetry Demand Reduction MWh columns. The net value of the MA Reported Injection MWh and the MA Reported Withdrawal MWh is populated in the MA Reported MWh column.

Figure 31: Dual channel Injection/Withdrawal MWh-related error message



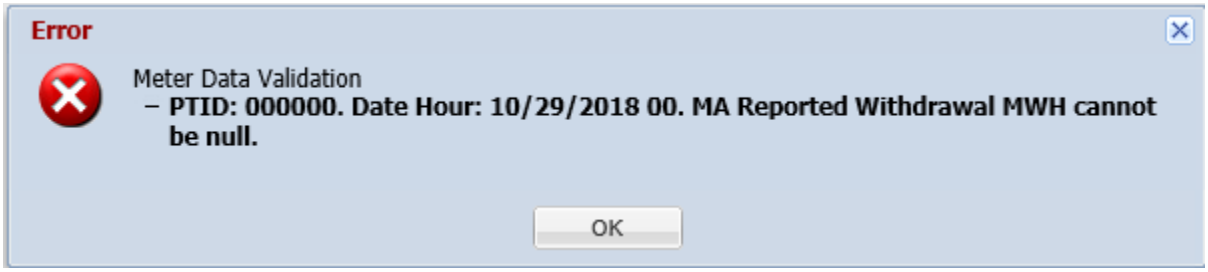
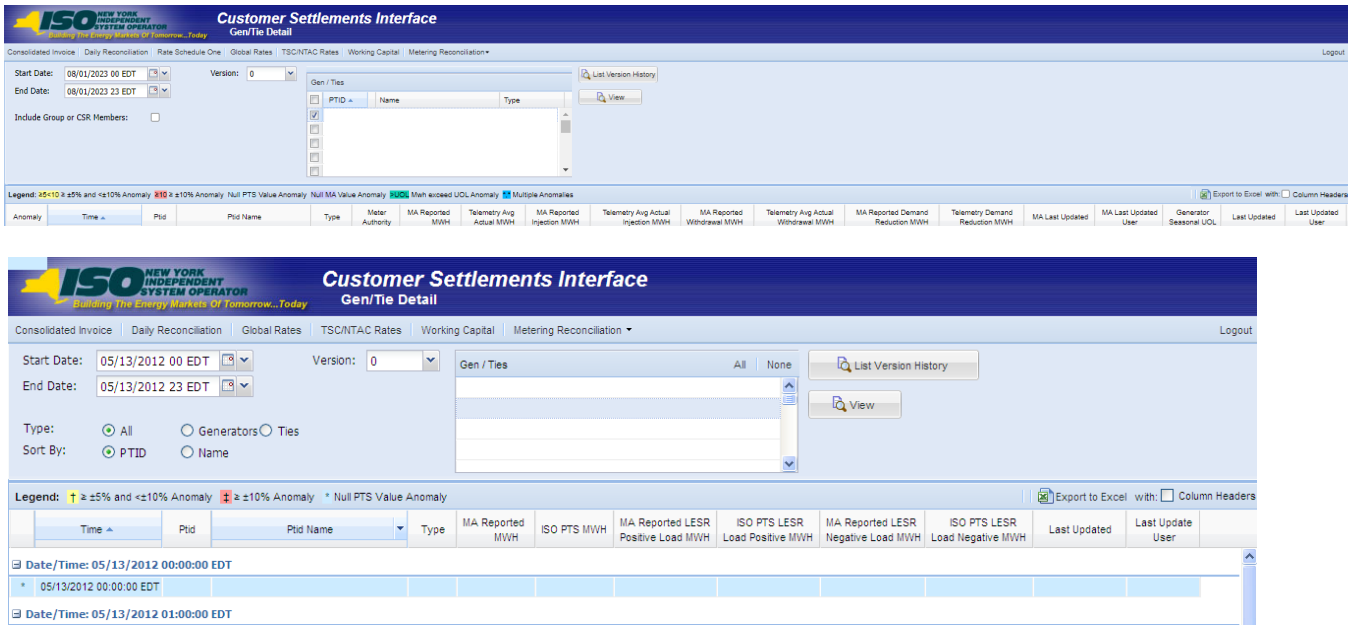


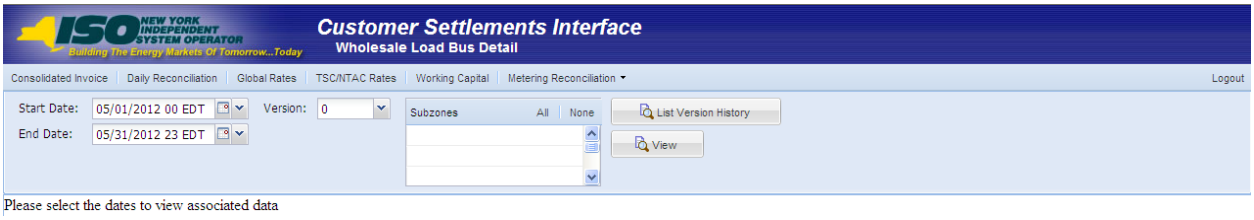
Figure 32: Gens/Ties Hourly Load Detail results page



4.7.1.4 Wholesale Load Bus Detail Query Page

After the user clicks on the **Wholesale Load Bus Detail Report** button a query screen will be displayed to the user.

Figure 33: Wholesale Load Bus Detail Query



The *Wholesale Load Bus Detail* query page allows the user to choose a date or date/time frame, and a specific subzone for which they wish to review/enter their wholesale load bus data.

The *Wholesale Load Bus Detail* query page enables the user to select the following reporting options:

Start Date: Select the start date of the query

End Date: Select the end date of the query

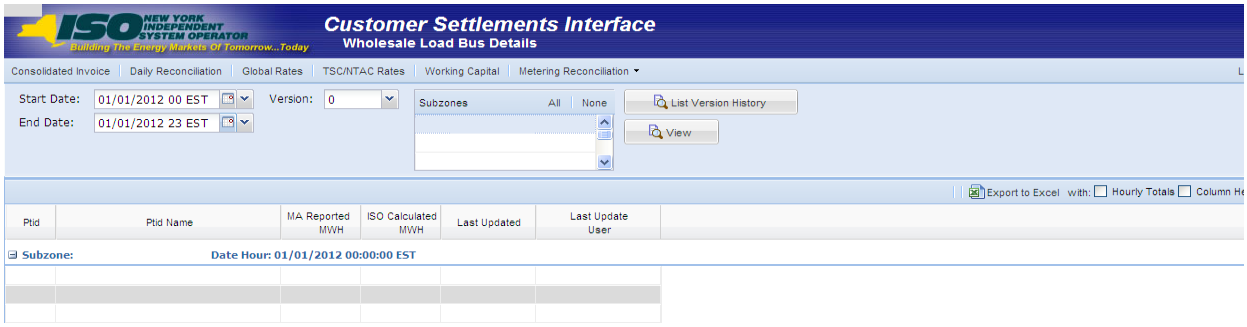
Version: Select the version of the query

List Version History - provides user with all versions available within the start and end date range (Note: this step is not required to retrieve the report.)

- **Subzones** – A selection of more than one Subzone is permitted only when the Start Date and End Date are the same day.
  - To select all Subzones, click the **All** button for all subzones in the listing.
  - To select no Subzones, click the **None** button to clear all subzones in the listing.
  - To select one or more Subzones, either click each desired subzone, or press the **CTRL** key then click each desired subzone in the list, or press the **SHIFT** key then select the first and last Subzone to be included in the report.

The user enters the filter criteria and clicks on the **View** Button. The report output only displays the PTIDs for which the Meter Authority is responsible. The user can report and submit wholesale load bus data from this display.

Figure 34: Wholesale Load Bus Detail results page



3. Using Marketplace User, Administrator and Organization Links

The Market Participant User, Administrator and Organization Web pages enable the user to view and update access to the SDX functions based upon user permissions. For additional information please refer to section 6 of the *Market Participant User's Guide (MPUG)*, available from the NYISO Web site at the following URL: https://www.nyiso.com/manuals-tech-bulletins-user-guides