

# UG 18

# Voltage Support Test Data System User's Guide

**Issued: January 2025** 



# Version: 4.0 Effective Date: 01/31/2025 Recertified Date: 01/31/2025

## **Prepared By: Operations Engineering**

New York Independent System Operator 10 Krey Boulevard Rensselaer, NY 12144 (518) 356-6060 www.nyiso.com

Disclaimer: The information contained within this guide, along with other NYISO guides, is intended to be used for information purposes only, and is subject to change. The NYISO is not responsible for the user's reliance on these publications, or for any erroneous or misleading material.

©Copyright 1999-2025 New York Independent System Operator



## **Table of Contents**

TA	BLE OF FIGURES	IV
RE\	/ISION HISTORY	v
1.	INTRODUCTION	1
	1.1.Definition of the Voltage Support Test Data System (VSTDS)	1
	1.2.Obtaining Help and Handling Error Messages	2
2.	USER REQUIREMENTS	3
	2.1.Browser Recommendations	3
	2.2.Digital Certificates	3
	2.3.Logging in to the Voltage Support Test Data System	4
3.	VOLTAGE SUPPORT TEST DATA SYSTEM USER ROLE PRIVILEGES	8
	3.1.Matrix of Role Privileges	8
4.	SUBMISSION SUMMARY	9
5.	SUBMISSION SUMMARY DETAILS	11
6.	LEADING/LAGGING TEST DATA ENTRY	13
7.	EXPORT BATCH UNIT DATA	15



# **Table of Figures**

Figure 1: NYISO Home Webpage	. 4
Figure 2: Follow the link to the Voltage Support Test Data System	. 5
Figure 3: Login to Voltage Support Test Data System	. 6
Figure 4: Voltage Support Test Data System Submission Summary Page	. 6
Figure 5: Log Out of the Voltage Support Test Data System.	. 7
Figure 6: Log Out of the Voltage Support Test Data System.	. 7
Figure 7: Voltage Support Test Data System Role Privileges Matrix	. 8
Figure 8: Searching for a Submission Summary.	. 9
Figure 9: Example of Submission Summary Search Results.	10
Figure 10: Selecting a Submission Summary for a Treatment Group	11
Figure 11: Submission Summary Details for a Particular Treatment Group.	12
Figure 12: Navigate to the Adding Leading/Lagging Test Results Screen	13
Figure 13: The Adding Leading/Lagging Test Data Screen.	13
Figure 16: Export Batch Unit Data.	15
Figure 17: Example of a Batch Unit Data file	17



# **Revision History**

Version	Date	Revisions
1.0	06/22/2016	Initial Release
2.0	05/11/2018	Included ability to rollback test submission, changed screenshots to reflect current NYISO branding, corrected references in user role privilege matrix. Added figure titles and Table of Figures.
2.1	05/18/2020	Updated screen-shots of NYISO main page, and clarified the narrative describing how to navigate the Voltage Support Test Data System.
2.2	10/11/2021	Updated submission status descriptions based on software changes
3.0	02/15/2023	Recertified Global > Updated broken reference links Table of Figures > Updated table formatting Section 1.1. > Updated NYISO Ancillary Services Manual section reference from Section 3.6.5. to Section 3.6.6.
4.0	01/31/2025	<ul> <li>Recertified</li> <li>Section 6</li> <li>Consolidated Leading and Lagging test submission into one section for simplicity and clarity.</li> <li>Edited screenshot and instructions for new Contact Information field.</li> </ul>

### **1.** Introduction

The purpose of this Voltage Support Test Data System User Guide is to describe the features that are available to Market Participants, and to provide the information necessary to submit Leading and Lagging test data. This application replaces the manual process for voltage support test data submission.

This user guide has been organized in the following fashion:

- <u>Section 1</u> General introduction.
- <u>Section 2</u> Describes the hardware and software requirements to access the Voltage Support Test Data System.
- <u>Section 3</u> Presents a roadmap of the Voltage Support Test Data System and the roles of the various users.
- <u>Section 4</u> Describes how to view test data saved/submitted for each Treatment Group
- <u>Section 5</u> Describes how to view test data saved/submitted for each Member Unit.
- <u>Section 6</u> Describes how to enter and submit Leading/Lagging test data entries.
- <u>Section 7</u> Describes how to create a batch unit extract file.

#### 1.1. Definition of the Voltage Support Test Data System (VSTDS)

The Voltage Support Test Data System is designed for Market Participants that are a part of the NYISO Voltage Support Service. This program is overseen by the NYISO VSS Administrator. The Voltage Support Test Data System is a user friendly, secure, web-based application that allows Market Participants to input, update, delete, save, submit, review and view their Leading and Lagging Test Data. This process consists of the following steps:

- 1. Market Participants will access the VSTDS application to enter test data, review entries, and save/submit test data.
- 2. NYISO Administrator will review each test data submission, and will approve/reject submissions.
- 3. Market Participant are allowed to submit entries during the following periods:
  - In-Period: Test Dates for this option include:
    - a. Leading test period is from 1/1 to 10/31
    - b. Lagging test period is from 5/1 to 10/31
    - c. Must be submitted to the NYISO within ten business days of the test
  - Operational: operational data must be submitted to the NYISO within 10 business days of the end of the test period.
  - Out-of-Period: A test taking place outside of the normal test period pursuant to Section 3.6.6. of the NYISO Ancillary Services Manual.



*Note:* The VSTDS application will always display the best leading and lagging value. Best Leading value is the largest accepted absolute leading value. Best Lagging value is the largest accepted absolute lagging value.

#### **1.2. Obtaining Help and Handling Error Messages**

When help is required while using the Voltage Support Test Data System software, please contact your Stakeholder Services representative.

Error messages may appear occasionally while using this software. These messages will display in a popup window with information about the error. After reading the message, close the window and proceed. If additional help or information is needed, please contact your Stakeholder Services representative.



# 2. User Requirements

The computer requirements for the user to run the Voltage Support Test Data System are described in this section.

#### 2.1. Browser Recommendations

The NYISO currently supports Internet Explorer Version 11 (IEv11) and Mozilla Firefox (version 45.x). If you have an older version of that browser (IEv9, IEv10, Firefox 44, Firefox 43, etc.) you may experience difficulties using Voltage Support Test Data System.

#### 2.2. Digital Certificates

All users must have a valid digital certificate linked to their respective MIS account, installed on their respective computers, and specific to their browser in order to access the NYISO Voltage Support Test Data System.

For more information on digital certificates (including applying, exporting, obtaining, installing, and validating) please see Market Participant User's Guide, Section 4.4, *Digital Certificates*, at:

#### https://www.nyiso.com/manuals-tech-bulletins-user-guides

Users of the Voltage Support Test Data System do not need to obtain an additional digital certificate. Existing MIS accounts need to be set-up with Voltage Support Test Data System privileges, which may be done by the MIS Administrator of the user's organization.



#### 2.3. Logging in to the Voltage Support Test Data System

#### **To log in to the Voltage Support Test Data Systems — MPs and NYISO Admins**

*Note:* In order to access the Voltage Support Test Data System, the user must have Voltage Support Test Data System privileges.

There are two ways to navigate to the VSTDS. You may either follow a link as described below, or enter the following URL into your browser's navigation bar: **https://rtdms.nyiso.com/** 

If you would prefer to follow a link, begin on the NYISO home page (<u>https://www.nyiso.com/</u>). From the **Markets** drop down menu, click on the **Ancillary Services** link as shown in Figure 1.

#### Figure 1: NYISO Home Webpage





#### Figure 2: Follow the link to the Voltage Support Test Data System





Figure 3: Login to Voltage Support Test Data System



# **Solution** Voltage Support Test Data System

Login Required	
User Name:	
Password:	_
Enter your password	
Login	
Enter your password Login	

You will now be taken to the Submission Summary screen of the VSTDS. Here you can view a summary of your data submissions for the year, including the current review status, and total MVAr compensation awarded for approved tests for each Treatment Group. This screen should look very similar to Figure 4.

#### Figure 4: Voltage Support Test Data System Submission Summary Page

Log o											
		Submission Sum	marv	esi Dala Sj	stem						
	Organization	Name									
Test Ye	Test Year: 2016 V Status: All V Treatment Group: All V Payment PTID: All V Only Show Out- Search										
Actions	Payment PTID	Group Name	Test	Leading		Laggin	9	Compensation MVAr	Undate Date/Time		
Accions	r dymener 115		Year	Status	MVAr Sum	Status	MVAr Sum	compensation man	opadie Date, mile		
D,	######	Group Name	2016	Not Submitted		Approved	21		05/18/2016 10:26:36 EDT		
R.	######	Group Name	2016	Not Submitted		Approved	22		05/17/2016 14:10:28 EDT		
d,	#####	Group Name	2016	Approved	0	Approved	20	20	05/19/2016 14:34:41 EDT		
D.	######	Lorna - Treatment Group Test Data	2016	Under Review		Approved	350		05/18/2016 13:00:02 EDT		
d,	*****	Lorna-Group to Test Future In Service	2016	Not Submitted		Not Submitted			06/02/2016 13:49:20 EDT		
D.	######	Group Name	2016	Under Review		Not Submitted			05/17/2016 16:15:01 EDT		
D.	######	Group Name	2016	Approved	0	Approved	31	31	05/19/2016 14:33:50 EDT		
D.	Individual Pay	Group Name	2016	Not Submitted		Under Review			06/02/2016 14:42:18 EDT		
R.	Individual Pay	Group Name	2016	Not Submitted		Not Submitted			06/02/2016 14:48:31 EDT		
D.	Individual Pay	Group Name	2016	Under Review		Not Submitted			05/19/2016 13:55:01 EDT		
D.	Individual Pay	Group Name	2016	Under Review		Not Submitted			05/19/2016 13:55:02 EDT		
d,	Individual Pay	Group Name	2016	Under Review		Approved	0		05/19/2016 13:30:01 EDT		
D.	Individual Pay	Group Name	2016	Under Review		Not Submitted			06/02/2016 15:50:12 EDT		
Expo	rt Batch Unit Data										
© 201	5 New York Independ	tent System Operator - ALL RIGHTS RESERV	=D								



#### □ To log out of the Voltage Support Test Data System

1. On the main screen, click the **Log Out** item as illustrated on Figure 5 below.

#### Figure 5: Log Out of the Voltage Support Test Data System.

Voltage Support Test Data System Submission Summary	Click Here Log out
Organization Name       Test Year:     2016       Year:     2016       Year:     All       Year:     Group:	Payment All Only Show Out- Search PTID: Of-Period:

2. A dialog box will appear as illustrated on Figure 6 below.

#### Figure 6: Log Out of the Voltage Support Test Data System.

Click here to login again.





## 3. Voltage Support Test Data System User Role Privileges

#### 3.1. Matrix of Role Privileges

The Matrix of Role Privileges for the Voltage Support Test Data System is shown in the following Figure 7. This matrix lists all of the functions in the Voltage Support Test Data System (VSTDS) and shows the read (R) and write (W) access privileges for both the MP and the NYISO Voltage Support Administrator. Each of the listed functions is described in the following sections.

Refer Section	VSTDS Functions	MP	NYISO Admin
4	Submission Summary Screen	R/W	R
5	Submission Details Screen		
6	Leading Tests		
	Add Leading Test Data	R/W	R
	Update Leading Test Data	R/W	R
	Delete Leading Test Data	R/W	R
	Submit Leading Test Data	R/W	R
7	Lagging Tests		
	Add Lagging Test Data	R/W	R
	Update Lagging Test Data	R/W	R
	Delete Lagging Test Data	R/W	R
	Submit Lagging Test Data	R/W	R
8	Export Batch Unit	R/W	R

#### Figure 7: Voltage Support Test Data System Role Privileges Matrix.

R Read access only

R/W Read and write access



### 4. Submission Summary

*Pre-Requisite*: Section 4 assumes the user has logged on to the Voltage Support Test Data System. If this is not the case, complete the procedure outlined in <u>Section 2.3</u>.

You can navigate to the Submission Summary for any Treatment Group with test data entered and saved/submitted.

Read Access: NYISO Admin, Market Participants

Write Access: Market Participants



- 1. Perform a search of Treatment Group test data, specifying criteria as follows:
  - a) From the Year field, choose individual year
  - b) Choose the criteria for **Status**:
    - *Not Submitted:* test data may have been entered and saved but not submitted for NYISO review OR test data may require ministerial correction prior to NYISO review.
    - *Rejected:* test has been rejected by NYISO for failing to meet test requirements.
    - Pending Validation: Test is currently undergoing validation checks.
    - *Ready For Approval:* Pending NYISO approval.
    - Under Review: Requires additional review by NYISO.
    - Approved: Approved for payment.

c) Choose the criteria for **Treatment Group** – this will only include the Treatment Group that belongs to your Organization.

d) Choose the criteria for **Payment PTID** – the PTID that a unit or group payment will be made to.

e) Choose **Only Show Out-of-Period** if you want to search for Out-of-Period test data only.

2. Click the **Search** button.

The search results will be displayed (as shown in the following Figure 9).



#### Figure 9: Example of Submission Summary Search Results.

	Organization	Name							
Test Ye	ar: 2016	Status: All	Y Trea	atment All		Payme PTID:	nt All	• Only Show Ou of-Period:	it- 🔲 🔍 Search
				l and b					
ctions	Payment PTID	Group Name	Test Year	Status	MVAr Sum	Status	MVAr Sum	Compensation MVAr	Update Date/Time
		Group Name	2016	Not Submitted		Approved	21		05/18/2016 10:26:36 EDT
		Group Name	2016	Not Submitted		Approved	22		05/17/2016 14:10:28 EDT
	######	Group Name	2016	Approved	0	Approved	20	20	05/19/2016 14:34:41 EDT
		Lorna - Treatment Group Test Data	2016	Under Review		Approved	350		05/18/2016 13:00:02 EDT
	*****	Lorna-Group to Test Future In Service	2016	Not Submitted		Not Submitted			06/02/2016 13:49:20 EDT
	nanan	Group Name	2016	Under Review		Not Submitted			05/17/2016 16:15:01 EDT
	#####	Group Name	2016	Approved	0	Approved	31	31	05/19/2016 14:33:50 EDT
	Individual Pay	Group Name	2016	Not Submitted		Under Review			06/02/2016 14:42:18 EDT
	Individual Pay	Group Name	2016	Not Submitted		Not Submitted			06/02/2016 14:48:31 EDT
	Individual Pay	Group Name	2016	Under Review		Not Submitted			05/19/2016 13:55:01 EDT
	Individual Pay	Group Name	2016	Under Review		Not Submitted			05/19/2016 13:55:02 EDT
	Individual Pay	Group Name	2016	Under Review		Approved	0		05/19/2016 13:30:01 EDT
	Individual Pay	Group Name	2016	Under Review		Not Submitted			06/02/2016 15:50:12 EDT

© 2016 New York Independent System Operator - ALL RIGHTS RESERVED



## 5. Submission Summary Details

*Pre-Requisite*: Section 5 assumes the user has logged on to the Voltage Support Test Data System. If this is not the case, complete the procedure outlined in <u>Section 2.3</u>.

You can navigate to the Submission Summary for any Treatment Group with test data entered and saved/submitted.

Read Access: NYISO Admin, Market Participants

Write Access: Market Participants

#### To navigate to the Submission Summary Details screen

1. From the Submission Summary screen, select the Treatment Group you want to view as shown in Figure 10 below.

	Organization	Name							
Test Ye	ar: 2016	Status: All	<sup>™</sup> St	tep 1		Payme PTID:	All	<ul> <li>Only Show Ou of-Period:</li> </ul>	t- 🔲 🔍 Search
	Devenues OTTO	Come Mana	Test	Leadir	ng	Lagg	ing	Companya Nor Millo	Undets Date (Time
tions	Payment P11D	Group Name	Year	Status	MVAr Sum	Status	MVAr Sum	Compensation MVAr	Opdate Date/Time
	unnun	Group Name	2016	Not Submitted		Approved	21		05/18/2016 10:26:36 EDT
	anaan	Group Name	2016	Not Submitted		Approved	22		05/17/2016 14:10:28 EDT
		Group Name	2016	Approved	0	Approved	20	20	05/19/2016 14:34:41 EDT
	*****	Lorna - Treatment Group Test Data	2016	Under Review		Approved	350		05/18/2016 13:00:02 EDT
	*****	Lorna-Group to Test Future In Service	2016	Not Submitted		Not Submitted			06/02/2016 13:49:20 EDT
		Group Name	2016	Under Review		Not Submitted			05/17/2016 16:15:01 EDT
	unnan	Group Name	2016	Approved	0	Approved	31	31	05/19/2016 14:33:50 EDT
	Individual Pay	Group Name	2016	Not Submitted		Under Review			06/02/2016 14:42:18 EDT
	Individual Pay	Group Name	2016	Not Submitted		Not Submitted			06/02/2016 14:48:31 EDT
	Individual Pay	Group Name	2016	Under Review		Not Submitted			05/19/2016 13:55:01 EDT
	Individual Pay	Group Name	2016	Under Review		Not Submitted			05/19/2016 13:55:02 EDT
	Individual Pay	Group Name	2016	Under Review		Approved	0		05/19/2016 13:30:01 EDT
	Individual Pay	Group Name	2016	Under Review		Not Submitted			06/02/2016 15:50:12 EDT

#### Figure 10: Selecting a Submission Summary for a Treatment Group.

2. The system will display the Submission Summary Details for the selected Treatment Group as illustrated in Figure 11 below.



#### Figure 11: Submission Summary Details for a Particular Treatment Group.

Submiss	iubmission Details											
Lorn Serv	Lorna-Group to Test Future In (Payment PTID: #####), Treatment Type: Combined Cycle) Service Date Cryanization Name No "Out-of-Period" tests shown below; return to summary for "Out-of-Period" tests.											
Approved Leading MVAr:												
Leading Tests												
Actions	ictions Status Test Date/Time Gross Generator Output				Net Ger Real Power (MW)	Reactive Power (MVAr)	Effective Date/Time	Update Date/Time	Comment			
Laggi	ng Tests							👍 Add Li	agging Test Results			
Actions	Status	Test Date/Time	Gross Ge Real Power (MW)	nerator Output Reactive Power (MVAr)	Net Ger Real Power (MW)	Reactive Power (MVAr)	Effective Date/Time	Update Date/Time	Comment			
2 🗙	Not Submitted	06/01/2016 00:	26	14	26	14		06/02/2016 13:				
Cano	el											



## 6. Leading/Lagging Test Data Entry

*Pre-Requisite*: Section 6 assumes the user has logged on to the Voltage Support Test Data System. If this is not the case, complete the procedure outlined in <u>Section 2.3</u>.

You can navigate to the Adding Leading/Lagging Test Data for any Treatment Group with test data entered and saved/submitted.

*Read/Write Access:* Market Participants

#### To navigate to the Adding Leading/Lagging Test Data screen

1. From the Submission Detail screen, click **Add Leading/Lagging Test Results** as illustrated in Figure 12 below.

#### Figure 12: Navigate to the Adding Leading/Lagging Test Results Screen.

Submissi	Submission Details										
	Organization Name (Payment PTID: 23517, Treatment Type: All Other)										
2016 Only "Out-of-Period" tests shown below; return to summary for "In-Period" tests. Approved Leading MVAr: Approved Lagging MVAr:								Step 1			
Leadi	ng Tests								Add Leading Test Results		
Actions	Status	Gross Generator Output         Net Generator Output         Effective Date/Time         Update Date/Time         Update Date/Time         Update Date/Time				Comment					
					311			05/03/2016 11:43:54 EDT			

2. The system will load the Adding Leading/Lagging Test Data screen as illustrated in Figure 13 below.

Adding Lagging Test Data												
Treatment Group Nar Organization Name	me	(Payn Step 3	nent PTID: PTID	, Treatment Ty	pe: Intermittent, I	Т)						
Test Date/Time:	Test Date/Time: Operational Data Step 4											
Lagging Test Data												
		Gross Generator Output		Net Output to System		Hydrogen Pressure	Generator Terminal Voltage		Tap Positions		In-plant Aux Station	
Unit Name	PTID	Real Power (MW)	Reactive Power (MVAr)	Real Power (MW)	Reactive Power (MVAr)	(PSIA)	Gen Terminal	Auxiliary Bus	GSU	Auxiliary Bus	MW	MVAr
Member Unit	PTID	]										
Member Unit	PTID	]			han F							
Member Unit	PTID			Step 5						ļ		
Step 6												
Contact: Na	me - Phone	e - Email										
Contac: Name - Phone - Email Comment: Step 7												
💥 Cancel											🖋 Sa	ve 🤽 Submit

Figure 13: The Adding Leading/Lagging Test Data Screen.



- 3. Select Test Date/Time.
- 4. Select Test type (In-Period, Operational Data or Out-of-Period)
- 5. Enter the following VSS Leading test data:
  - Choose test type Gross Generator Output
    - Real Power (MW)
    - Reactive Power (MVAr)
  - Net Output to System
    - Real Power (MW)
    - Reactive Power (MVAr)
  - Hydrogen Pressure (PSIA)
  - Generator Terminal Voltage
    - Gen Terminal
    - Auxiliary Bus
  - Tap Positions
    - GSU
    - Auxiliary Bus
  - In-plant Aux Station Service Load
    - MW
    - MVAr
- 6. Enter contact information and any comments
- 7. After entering test data, the user can do the following
  - a) Save: the status will be set to "Not Submitted"

*b)* Submit: the status will be set to either "Ready for Approval", "Under Review", or "Pending Approval".

*c) Cancel:* test entry will not be saved, and system returns to previous screen.



## 7. Export Batch Unit Data

*Pre-Requisite*: Section 8 assumes the user has logged on to the Voltage Support Test Data System. If this is not the case, complete the procedure outlined in <u>Section 2.3</u>.

Market Participants can create an export file (.xls or .csv format) of the Member Units with test data entries.

Read Access: Market Participants

Write Access: Market Participants

#### To Export Batch Unit Data

1. From the Submission Summary screen, click **Export Batch Unit Data** illustrated in Figure 19 below.

Figure 14: Export Batch Unit Data.

	Į£	Voltage Sup Submission Sum	mary	est Data S	ystem				Log out
Test Ye	Organization ear: 2016	Name Status: All	▼ Tre	atment All		✓ Paym	ent All	<ul> <li>Only Show Out</li> </ul>	t- 🔲 🔍 Search
			Gro	up:		PTID:		of-Period:	
Actions	Payment PTID	Group Name	Test Year	Leading Status	g MVAr Sum	Lagg Status	ing MVAr Sum	Compensation MVAr	Update Date/Time
à	#####	Group Name	2016	Not Submitted		Approved	21		05/18/2016 10:26:36 EDT
à	#####	Group Name	2016	Not Submitted		Approved	22		05/17/2016 14:10:28 EDT
à	######	Group Name	2016	Approved	0	Approved	20	20	05/19/2016 14:34:41 EDT
à	######	Lorna - Treatment Group Test Data	2016	Under Review		Approved	350		05/18/2016 13:00:02 EDT
6	######	Lorna-Group to Test Future In Service	2016	Not Submitted		Not Submitted			06/02/2016 13:49:20 EDT
6	#####	Group Name	2016	Under Review		Not Submitted			05/17/2016 16:15:01 EDT
2	######	Group Name	2016	Approved	0	Approved	31	31	05/19/2016 14:33:50 EDT
2	Individual Pay	Group Name	2016	Not Submitted		Under Review			06/02/2016 14:42:18 EDT
2	Individual Pay	Group Name	2016	Not Submitted		Not Submitted			06/02/2016 14:48:31 EDT
à	Individual Pay	Group Name	2016	Under Review		Not Submitted			05/19/2016 13:55:01 EDT
à	Individual Pay	Group Name	2016	Under Review		Not Submitted			05/19/2016 13:55:02 EDT
Click Here		Group Name	2016	Under Review		Approved	0		05/19/2016 13:30:01 EDT
		Group Name	2016	Under Review		Not Submitted			06/02/2016 15:50:12 EDT
Expo	rt Batch Unit Data								

2. The system will create a batch unit file which will only include the



In-Period Test Data for the selected Test Year, and will contain the following information:

- Group Name
- Payment PTID
- Compensation MVAR
- Group Type
- Organization Name
- Test Year
- Test Type
- Test Date/Time
- Member Name
- PTID
- Gross Generator Real Power (MW)
- Gross Generator Reactive Power (MVAr)
- Net Generator Real Power (MW)
- Net Generator Reactive Power (MVAr)
- Hydrogen Pressure (PSIA)
- Generator Terminal Voltage Gen Terminal
- Generator Terminal Voltage Auxiliary Bus
- Tap Positions GSU
- Tap Positions Auxiliary Bus
- In-plant Aux Station Service Load Real Power (MW)
- In-plant Aux Station Service Load Reactive Power (MVAr)
- Grand Total Gross Generator Real Power (MW)
- Grand Total Gross Generator Reactive Power (MVAr)
- Grand Total Net Generator Real Power (MW)
- Grand Total Net Generator Reactive Power (MVAr)

An example of the Batch Unit Data file is shown below in the following Figure 17.



#### Figure 15: Example of a Batch Unit Data file.

A	В	C D	E	F	G	Н		J	K	L	М	N	0	Р	Q	R	S	Ī	U	V	V	
										Gross		Net		Generator	Generator			In-plant Aux	In-plant Aux	Grand Total	Grand Total	Gra
									Gross	Generator -	Net	Generator -	·	Terminal	Terminal		Tap	Station	Station	Gross	Gross	Net
		Compe							Generator -	Reactive	Generator -	Reactive	Hydrogen	Voltage -	Voltage –	Tap	Positions -	Service	Service	Generator -	Generator -	Gen
		nsation					Member		Real Power	Power	Real Power	Power	Pressure	Gen	Auxiliary	Positions -	Auxiliary	Load - Real	Load -	Real Power	Reactive	Rea
Group Name	Payment PTID	MVAR Group Type	Org Name	Test Yea	r Test Type	Test Date/Time	Name	PTID	(MV)	(MVAr)	(MW)	(MVAr)	(PSIA)	Terminal	Bus	GSU	Bus	Power (MV)	Reactive	(MW)	Power	(M¥
Group Name 4	(D., DTDW)																					
www.hane.t	<payment ptid#=""></payment>	20 Al Other	Organization Name	201	6 In-Period Lagging Test	05/18/2016 00:00:00 EE	) Astoria 4	<pre>PTID&gt;</pre>	349	2	)		1	3 2	2 2	26	6	6 4	2	? 345	20	I
Group Name 4	<payment ptid#=""> <payment ptid#=""></payment></payment>	20 Al Other 20 Al Other	Organization Name Organization Name	201	6 In-Period Lagging Test 6 In-Period Leading Test	05/18/2016 00:00:00 ED 05/14/2016 00:00:00 ED	) Astoria 4 ) Astoria 4	<pre>(PTID) <pre>(PTID)</pre></pre>	345	2	) ) 322	2	0	3 2 3	2 2 1 ·	2 6 1 9	6	6 4 9 4	2	2 345 1 323	20	 
Group Name 4 Group Name 2	<pre><payment ptid#=""> </payment></pre> <payment ptid#=""> <payment ptid#=""></payment></payment>	20 Al Other 20 Al Other 31 Al Other	Organization Name Organization Name Organization Name	201 201 201	6 In-Period Lagging Test 6 In-Period Leading Test 6 In-Period Lagging Test	05/18/2016 00:00:00 EE 05/14/2016 00:00:00 EE 05/14/2016 00:00:00 EE	) Astoria 4 ) Astoria 4 ) Astoria 2	<ptd><ptid></ptid></ptd>	349 323 33	21	) ) 322 1 3	1 3	0 0	3 2 3	2 2 11 · 4	2 6 1 9 5 6	3	5 4 9 4 5 4	2 3 3	2 345 3 323 1 33	20	]   
Group Name 4 Group Name 2	<pre><payment ptd#=""> </payment></pre> <payment ptd#=""> </payment>	20 Al Other 20 Al Other 31 Al Other	Organization Name Organization Name Organization Name	201 201 201	6 In-Period Lagging Test 6 In-Period Leading Test 6 In-Period Lagging Test	05/18/2016 00:00:00 ED 05/14/2016 00:00:00 ED 05/12/2016 00:00:00 ED	) Astoria 4 ) Astoria 4 ) Astoria 2	<pre> <ptid> <ptid> </ptid></ptid></pre>	345 323 33	21	) ) 322 1 3	2 1	0 0	3 2 3	2 2 1 · 4	2 6 1 9 5 6	6	5 4 3 4 5 4	2	2 345 1 323 33	20	1