



**UG 16**

# **Generating Availability Data System (GADS) Portal User's Guide**

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**Prepared by: Capacity, Demand Response & TCC Products**

New York Independent System Operator  
10 Krey Blvd  
Rensselaer, NY 12144  
(518) 356-6060  
[www.nyiso.com](http://www.nyiso.com)

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## Revision History

Version	Effective Date	Revisions
1.0	10/14/2014	Initial Release
2.0	08/25/2021	Recertification <ul style="list-style-type: none"><li>➤ Branding &amp; formatting updated</li><li>➤ Added PU and CO event requirement</li></ul>
2.1	09/19/2023	Recertified Global <ul style="list-style-type: none"><li>➤ Updated branding and formatting</li><li>➤ Corrected broken hyperlinks</li></ul>

## 1. Introduction

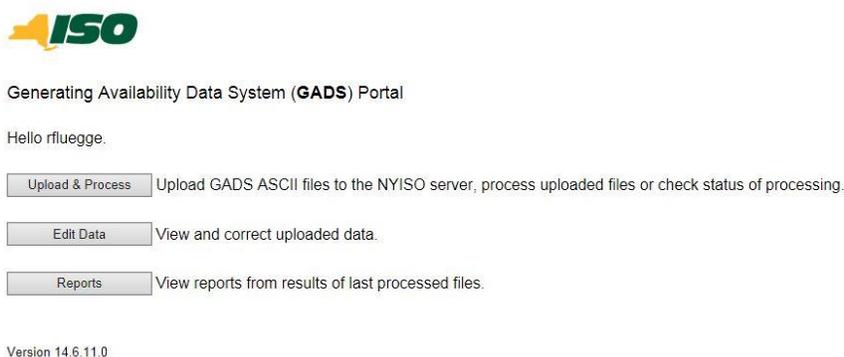
Two types of data are reported in the NYISO's Generator Availability Data System ("GADS"): event and performance.

Event data are reported in the Event Report 1(07) format and performance data in the Performance Report (05) format. Each of these formats is described in detail in Sections III and IV of the NERC GADS DRI. Note, however, that although the formats are the same, the events and data are not necessarily the same and are governed by the NYISO's tariff and ISO Procedures. "GADS Data" is defined in the NYISO's Market Administration and Control Area Services Tariff ("Services Tariff") as "data submitted to the NERC for collection into the NERC's Generating Availability Data System ("GADS")" and such other data required by the NYISO's. As used by the NYISO in the GADS Portal to which this User's Guide applies, it also incorporates other provisions in the NYISO's tariffs and ISO Procedures.

### 1.1 Web User Interface Login

The user interface (UI), shown in Figure 1 is the first screen displayed **after the User has been authenticated**.

**Figure 1-1: Opening Screen**



### 1.2 Start Up Screen

[Figure 1-1](#) shows the options available to successfully upload GADS data each month.

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<sup>1</sup> Services Tariff at Section 2.7.

**Upload & Process** is the first step the User will initiate each month in the upload process.

If you successfully upload the performance and event GADS data files and have no File Check or Data Check errors, and Analysis runs error free, then you do not need to initiate the **Edit Data** option for the month.

Select the **Edit Data** option on the opening screen if you have:

1. Uploaded the GADS data files and have been notified that the data has errors,
2. Exited the Portal and need to correct the data manually using the Portal's data entry forms when you return to the Portal.

**Note:** The User also has the option to correct the data records offline and upload the GADS ASCII files again using the **Upload & Process** option.

If you have successfully uploaded the performance (125 columns) and event (82 columns) GADS data files and have no errors, then you may not need to initiate the **Reports** option on the opening screen.

Select the **Reports** option if you want to print a report showing the calculated statistics for the selected period range (Starting Month and Ending Month).

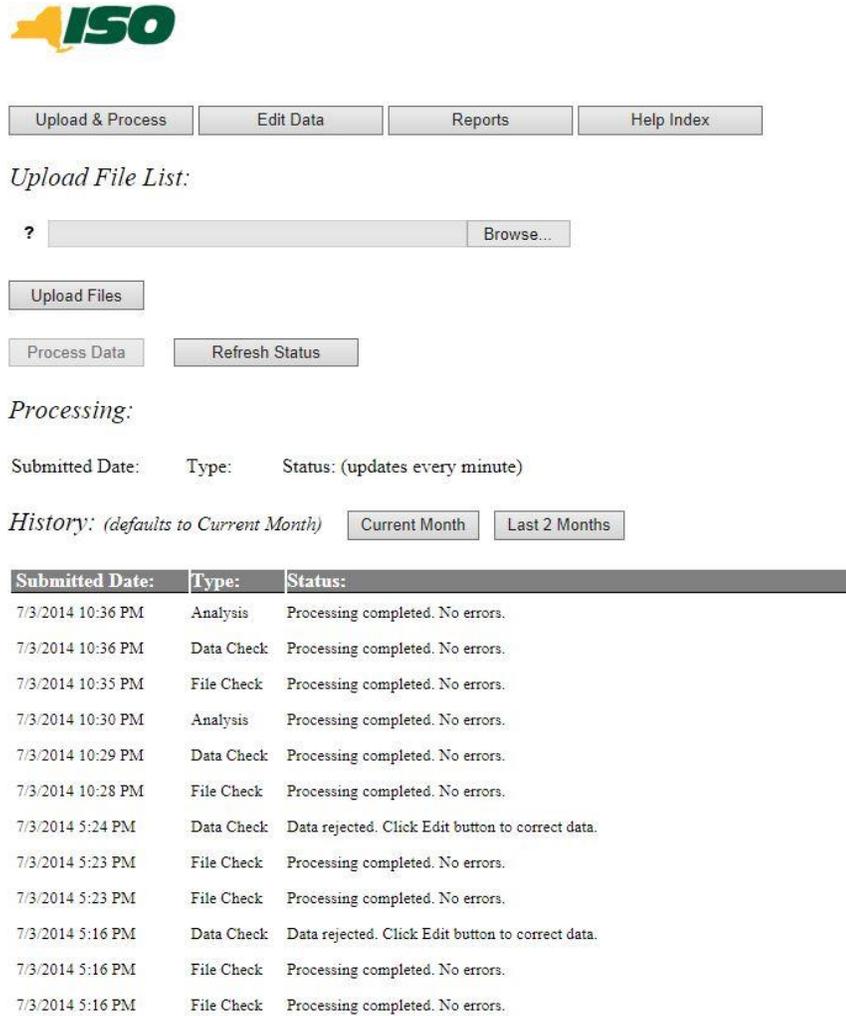
### 1.3 Uploading GADS Data

The following steps assume that valid GADS ASCII data files have been created as required prior to logging into the GADS Portal.

**Note:** The upload file(s) may be created by any software application that can create the required ASCII format.

1. To upload the ASCII file(s), press **Upload & Process**. Once the button is pressed you will see the web page shown in **Error! Reference source not found..**

**Figure 1-2: Data Upload Screen**



**ISO**

Upload & Process   Edit Data   Reports   Help Index

*Upload File List:*

?  Browse...

Upload Files

Process Data   Refresh Status

*Processing:*

Submitted Date:   Type:   Status: (updates every minute)

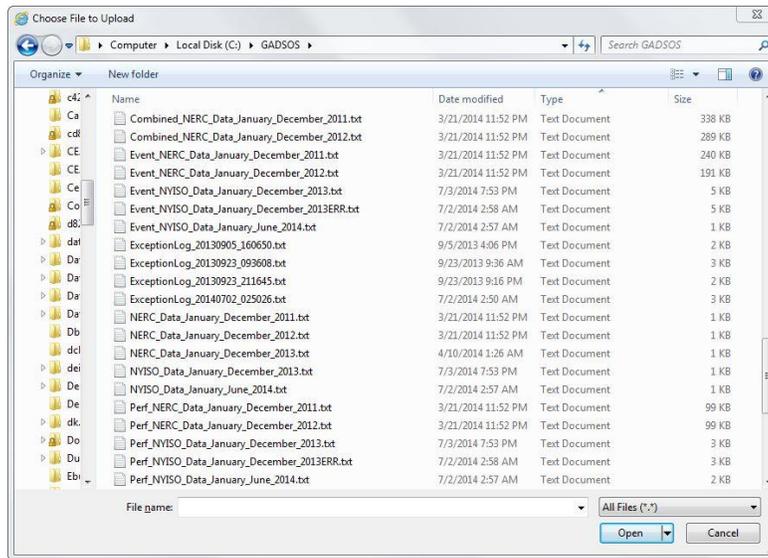
*History: (defaults to Current Month)*   Current Month   Last 2 Months

Submitted Date:	Type:	Status:
7/3/2014 10:36 PM	Analysis	Processing completed. No errors.
7/3/2014 10:36 PM	Data Check	Processing completed. No errors.
7/3/2014 10:35 PM	File Check	Processing completed. No errors.
7/3/2014 10:30 PM	Analysis	Processing completed. No errors.
7/3/2014 10:29 PM	Data Check	Processing completed. No errors.
7/3/2014 10:28 PM	File Check	Processing completed. No errors.
7/3/2014 5:24 PM	Data Check	Data rejected. Click Edit button to correct data.
7/3/2014 5:23 PM	File Check	Processing completed. No errors.
7/3/2014 5:23 PM	File Check	Processing completed. No errors.
7/3/2014 5:16 PM	Data Check	Data rejected. Click Edit button to correct data.
7/3/2014 5:16 PM	File Check	Processing completed. No errors.
7/3/2014 5:16 PM	File Check	Processing completed. No errors.

Press **Browse** to locate the required file. Select a single file to upload on the screen shown in Figure 1-3. The user can upload data files in the formats defined in Attachment K of the Installed Capacity Manual (available from the NYISO Web site at the following URL:

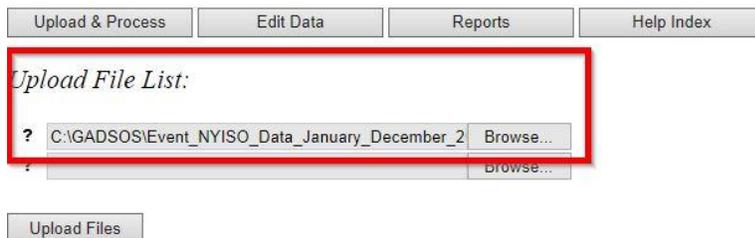
[https://www.nyiso.com/documents/20142/2923301/icap\\_mnl.pdf/234db95c-9a91-66fe-7306-2900ef905338](https://www.nyiso.com/documents/20142/2923301/icap_mnl.pdf/234db95c-9a91-66fe-7306-2900ef905338))

**Figure 1-3: File Selection Dialog**



As the User selects each file, it is displayed as shown in [Figure 1-4](#).

**Figure 1-4: Data Upload Screen with Selected File**



You may repeat this process up to a total of 20 files; however, each file in the set of 20 must have a unique name (i.e., two files in the selection list cannot have the same name, even if they are in different directories).

After you have selected the files to upload, press **Upload Files**.

There will be a message indicating the status of the upload as shown in [Figure 1-5](#).

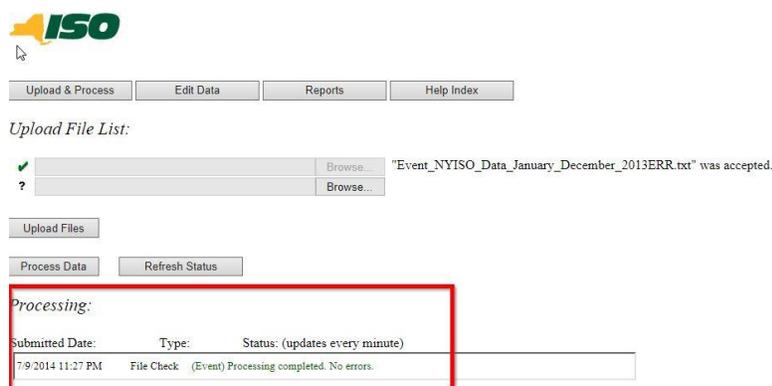
**Figure 1-5: Screen Showing File Accepted Status**



After you have successfully uploaded all the files, click on **Process Data** in order for the system to further validate the data, and to validate both the performance and event data for consistency.

As shown in Figure 1-6, the status of the processing is shown below the blue line. As indicated in the figure, the status is automatically updated approximately every one minute.

**Figure 1-6: Processing Status**



During the processing, the status displays the three phases that the uploaded data pass through:

1. File Check
2. Data Check
3. Analysis

These phases are displayed as the NYISO's system checks the files for a valid format, and the data for validity and consistency, then calculates the validated data and then stores the calculated results in the database.

During these phases, the status may be listed as one of the following:

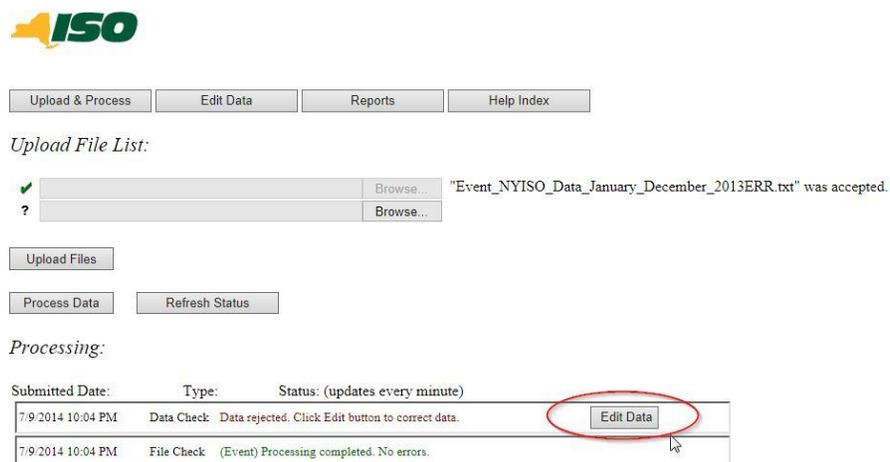
- Waiting for processing...

- Working...
- Processing completed. No errors.
- Data rejected. Click Edit button to correct data.
- No processes in queue.
- Operation aborted.
- Invalid process request.
- Invalid file format. Correct file and re-upload.

If there are errors, you will have the opportunity to view and/or correct the errors online by clicking on **"Edit Data"** to the right of the status display, as shown in **Error! Reference source not found.**

**Note:** All online corrections should also be performed in the User's GADS database.

**Figure 1-7: Error Status**



If the uploading and processing results in no errors (**Processing completed. No errors.**), then the calculated data for each unit can be viewed for each month by pressing the **Reports** button. Any range of months can be selected, as shown in [Figure 1-8](#).

Figure 1-8: History Display

The screenshot displays the NYISO History Display interface. At the top left is the NYISO logo. Below it are four navigation buttons: "Upload & Process", "Edit Data", "Reports", and "Help Index".

The "Upload File List:" section contains a table with three rows. The first two rows have green checkmarks in the first column and "Browse..." in the second. The third row has a question mark. To the right of the table, text indicates that two files were accepted: "Event\_NYISO\_Data\_January\_December\_2013.txt" and "Perf\_NYISO\_Data\_January\_December\_2013.txt".

Below the upload list are buttons for "Upload Files", "Process Data", and "Refresh Status".

The "Processing:" section features a table with columns for "Submitted Date", "Type", and "Status: (updates every minute)". The first row is circled in red. The table lists several processing events with their respective dates, times, types, and statuses.

At the bottom, the "History:" section has a filter for "Current Month" and "Last 2 Months". Below this is a table with columns for "Submitted Date:", "Type:", and "Status:".

This generates a report similar to the one shown in [Figure 1-9](#).

**Figure 1-9: Standard NYISO EFORd Report**

Export to Excel  
Data Exported.

14 1 of 2 Find | Next

Unit Name	Month Or Total	Net Actual Generation	SH	RSH	OH	FO Count	EFDH	Attempted Starts	Actual Starts	Starting Reliability	Forced Outage Rate	EFORd	EAF	Net Capacity Factor	Period
Standard (Unit 1)	Jul 2013	103,899.00	464.77	257.40	12.10	2	0.00	23	23	100.00	2.54	2.13	97.07	49.52	Jul 2013 - Jun 2014
Standard (Unit 1)	Aug 2013	131,170.00	605.12	138.28	0.60	1	1.99	16	15	93.75	0.10	0.37	99.65	62.52	Jul 2013 - Jun 2014
Standard (Unit 1)	Sep 2013	53,631.00	256.30	349.70	0.00	0	0.00	2	2	100.00	0.00	0.00	84.17	26.41	Jul 2013 - Jun 2014
Standard (Unit 1)	Oct 2013	0.00	744.00	0.00	0.00	0	664.85	0	0	0.00	89.36	10.64	0.00	0.00	Jul 2013 - Jun 2014
Standard (Unit 1)	Nov 2013	0.00	0.00	0.00	721.00	1	0.00	0	0	100.00	100.00	0.00	0.00	0.00	Jul 2013 - Jun 2014
Standard (Unit 1)	Dec 2013	0.00	744.00	0.00	0.00	0	0.00	1	1	100.00	0.00	0.00	100.00	0.00	Jul 2013 - Jun 2014
Standard (Unit 1)	Jan 2014	66,308.00	279.38	415.33	4.33	1	0.00	3	3	100.00	1.53	1.46	93.30	31.60	Jul 2013 - Jun 2014
Standard (Unit 1)	Feb 2014	0.00	0.38	561.60	0.00	0	0.00	1	1	100.00	0.00	0.00	83.63	0.00	Jul 2013 - Jun 2014
Standard (Unit 1)	Mar 2014	16,454.00	80.05	662.95	0.00	0	0.00	1	1	100.00	0.00	0.00	100.00	7.85	Jul 2013 - Jun 2014
Standard (Unit 1)	Apr 2014	0.00	0.00	720.00	0.00	0	0.00	0	0	0.00	0.00	0.00	100.00	0.00	Jul 2013 - Jun 2014
Standard (Unit 1)	May 2014	0.00	0.00	744.00	0.00	0	0.00	0	0	0.00	0.00	0.00	100.00	0.00	Jul 2013 - Jun 2014
Standard (Unit 1)	Jun 2014	0.00	0.00	720.00	0.00	0	0.00	0	0	0.00	0.00	0.00	100.00	0.00	Jul 2013 - Jun 2014
Standard (Unit 2)	Jul 2013	2,266.00	12.70	0.00	0.00	0	2.01	1	1	100.00	0.00	15.79	1.44	1.07	Jul 2013 - Jun 2014
Standard (Unit 2)	Aug 2013	25,956.00	140.38	442.75	126.58	5	92.07	15	14	93.33	47.42	39.08	66.00	12.24	Jul 2013 - Jun 2014
Standard (Unit 2)	Sep 2013	2,850.00	93.75	338.25	0.00	0	61.87	7	7	100.00	0.00	14.32	51.41	1.39	Jul 2013 - Jun 2014
Standard (Unit 2)	Oct 2013	0.00	251.43	0.00	0.00	0	0.00	1	1	100.00	0.00	0.00	33.79	0.00	Jul 2013 - Jun 2014
Standard (Unit 2)	Nov 2013	0.00	721.00	0.00	0.00	0	0.00	0	0	0.00	0.00	0.00	100.00	0.00	Jul 2013 - Jun 2014
Standard (Unit 2)	Dec 2013	0.00	744.00	0.00	0.00	0	0.00	0	0	0.00	0.00	0.00	100.00	0.00	Jul 2013 - Jun 2014
Standard (Unit 2)	Jan 2014	55,234.00	260.93	269.43	223.63	1	0.00	1	1	100.00	47.12	37.47	69.94	26.05	Jul 2013 - Jun 2014

During processing, you can abort the process by clicking on the **Abort** button to the right of the status display, as shown in [Figure 1-10](#).

Figure 1-10: Abort Processing

**ISO**

Upload & Process   Edit Data   Reports   Help Index

Upload File List:

✓		Browse...	"Event_NYISO_Data_January_December_2013.txt" was accepted.
✓		Browse...	"Perf_NYISO_Data_January_December_2013.txt" was accepted.
?		Browse...	

Upload Files

Process Data   Refresh Status

Processing:

Submitted Date:   Type:   Status: (updates every minute)

7/11/2014 1:38 PM	File Check (Event)	Waiting for processing...	Abort
7/11/2014 1:38 PM	File Check (Perf)	Waiting for processing...	Abort

History: (defaults to Current Month)   Current Month   Last 2 Months

Submitted Date:	Type:	Status:
7/9/2014 10:04 PM	Data Check	Data rejected. Click Edit button to correct data.
7/9/2014 10:04 PM	File Check	Processing completed. No errors.

Figure 1-11: Results with No Errors

**ISO**

Upload & Process   Edit Data   Reports   Help Index

Upload File List:

?		Browse...	
---	--	-----------	--

Upload Files

Process Data   Refresh Status

Processing:

Submitted Date:   Type:   Status: (updates every minute)

7/11/2014 1:51 PM	Analysis	Processing completed. No errors.	
7/11/2014 1:51 PM	Data Check	Processing completed. No errors.	
7/11/2014 1:50 PM	File Check (Event)	Processing completed. No errors.	
7/11/2014 1:50 PM	File Check (Perf)	Processing completed. No errors.	
7/11/2014 1:39 PM	Data Check	Data rejected. Click Edit button to correct data.	Edit Data
7/11/2014 1:38 PM	File Check (Event)	Processing completed. No errors.	
7/11/2014 1:38 PM	File Check (Perf)	Processing completed. No errors.	

History: (defaults to Current Month)   Current Month   Last 2 Months

Submitted Date:	Type:	Status:
7/9/2014 10:04 PM	Data Check	Data rejected. Click Edit button to correct data.
7/9/2014 10:04 PM	File Check	Processing completed. No errors.

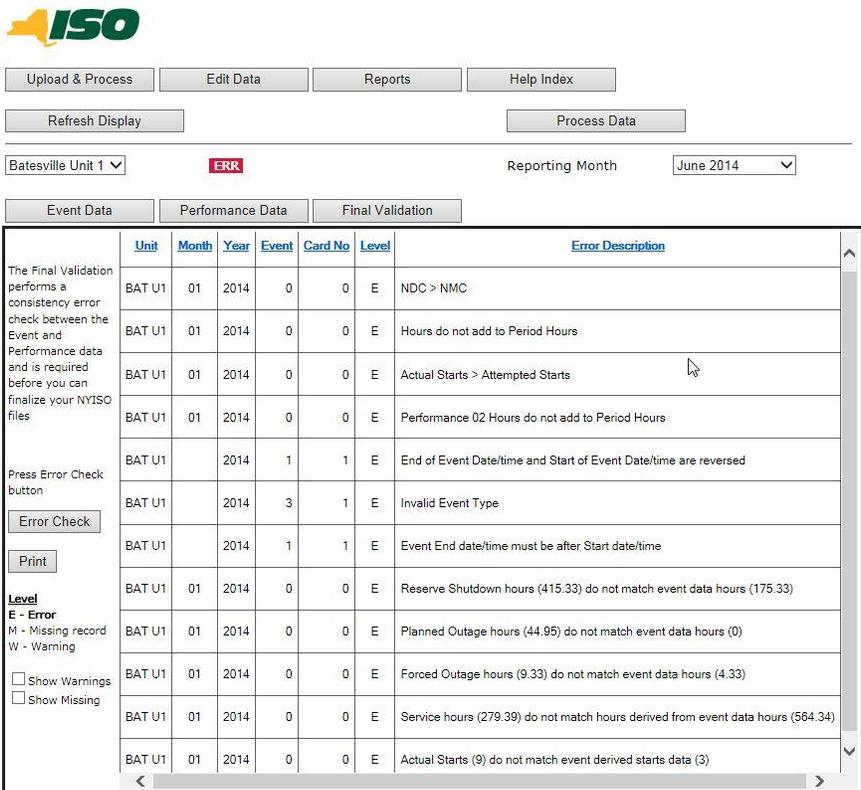
If errors are identified, there are two ways for the user to resolve them:

- Correct the GADS data offline and reload only the Year-to-Date (YTD) data records for those units where errors were identified. If there are only performance data errors, you have the option to upload only YTD performance data file(s) for the unit(s) that have errors. Likewise, if there are only event data errors, you have the option to upload only YTD event data file(s) for the unit(s) that have errors.
- Correct the data using the Portal's data entry forms as detailed in the Input Data Requirements section.

**Note:** All online corrections should also be performed in the User's GADS database.

The Error Detail screen, illustrated in **Error! Reference source not found.**, allows you to easily identify which performance unit or event record is in error.

**Figure 1-12: Example Error Detail Screen**



The Final Validation performs a consistency error check between the Event and Performance data and is required before you can finalize your NYISO files

Press Error Check button

**Level**  
 E - Error  
 M - Missing record  
 W - Warning

Show Warnings  
 Show Missing

Unit	Month	Year	Event	Card No	Level	Error Description
BAT U1	01	2014	0	0	E	NDC > NMC
BAT U1	01	2014	0	0	E	Hours do not add to Period Hours
BAT U1	01	2014	0	0	E	Actual Starts > Attempted Starts
BAT U1	01	2014	0	0	E	Performance 02 Hours do not add to Period Hours
BAT U1		2014	1	1	E	End of Event Date/time and Start of Event Date/time are reversed
BAT U1		2014	3	1	E	Invalid Event Type
BAT U1		2014	1	1	E	Event End date/time must be after Start date/time
BAT U1	01	2014	0	0	E	Reserve Shutdown hours (415.33) do not match event data hours (175.33)
BAT U1	01	2014	0	0	E	Planned Outage hours (44.95) do not match event data hours (0)
BAT U1	01	2014	0	0	E	Forced Outage hours (9.33) do not match event data hours (4.33)
BAT U1	01	2014	0	0	E	Service hours (279.39) do not match hours derived from event data hours (564.34)
BAT U1	01	2014	0	0	E	Actual Starts (9) do not match event derived starts data (3)

If the errors are event errors, click on **Edit Existing Events** to bring up the Error Correction screen, as illustrated in **Error! Reference source not found.** The appropriate record can be revised offline and then reloaded, or the data can be revised using the Portal's data entry forms. If you choose to revise online, click the button next to the record you wish to revise. The area behind the button for the selected record will turn dark blue.

**Note:** Using the Portal's data entry form submits online corrections to the master database tables only if it passes the validation checks. All online corrections should also be performed in the User's GADS database.

**Figure 1-13: Example Error Correction Screen**

To edit a record, click on the button on the left-hand side of the event row

Primary Cause of Event						
	Event #	Event Type	Cause Code	Start Date/Time	End Date/Time	NAC
<input type="checkbox"/>	12	RS	0000	03/04/2014 11:03		0.00
<input type="checkbox"/>	11	RS	0000	02/28/2014 08:08	03/01/2014 03:00	0.00
<input type="checkbox"/>	10	RS	0000	02/15/2014 20:14	02/28/2014 07:45	0.00
<input type="checkbox"/>	9	MO	3700	02/11/2014 06:13	02/15/2014 20:14	0.00
<input type="checkbox"/>	8	RS	0000	01/18/2014 12:12	02/11/2014 06:13	0.00
<input type="checkbox"/>	6	U1	4499	01/17/2014 14:31	01/17/2014 18:51	0.00
<input type="checkbox"/>	4	RS	0000	01/11/2014 20:00	01/14/2014 03:55	0.00
<input type="checkbox"/>	1	RS	0000	01/11/2014 00:00	01/02/2014 11:37	0.00
<input type="checkbox"/>	3	PQ	3612	01/09/2014 23:03	01/11/2014 20:00	0.00

## 2. Navigating the GADS Portal

### 2.1 Input Data Requirements

The minimum required NYISO GADS format requires the following subset of the record identified above, specifically:

- Performance 01 record
- Performance 02 record
- Event 01 record
- Event 02 record

Note that there are additional data fields on these records not required by the minimum NYISO GADS format.

### 2.2 Main Menu

The “**Main** menu” is not actually a menu, but refers here to the top two portions of the screen, as illustrated in **Error! Reference source not found.**

**Figure 2-1: Menu**



Selections on the **Main** menu are made by using your mouse pointer and “left-clicking” the buttons to perform the desired action.

The installation includes an online Help file that you can access at any time by clicking Help on the Main menu.

### 2.3 Selecting or Changing Units

The unit selection list box on the left side of the **Main** menu displays the generating units that the user is authorized to access.

When you first open the program, the software retrieves the performance and event data for the first unit displayed in the unit selection list box for the entire year based on the month displayed in the Reporting Month list box. For example, if the first unit displayed in the unit selection list box is Coffee Unit 1 and the Reporting Month is November 2014, then the software has retrieved from the database all event and performance records for Coffee Unit 1 for 2014.

As you input or edit the 2014 data for a unit you must click **Submit** on either the **Performance Data** or **Event Data** tab to ensure that the data is saved back to the master database tables.

**Note:** If you change the year for the current unit OR change to another unit without saving the data input, all subsequent data input and any changes made since the last time the user clicked **Submit** will be lost.

When entering new Performance data for the current month, be sure to click **Submit** at least once before changing the selection to a prior month, even in the same year; otherwise, the Performance data for the month will be lost. Saving the data the first time “locks in” the month’s data and subsequently selecting a different month does not result in the loss of the data on the Data Entry form.

**Note:** Using the Portal's data entry form submits online corrections to the master database tables only if it passes the validation checks. All online corrections should also be performed in the User's GADS database.

The Event data is not affected by changes in Reporting Month unless the change results in a change to a different year.

In addition, since the Web UI requires session timeouts for security reasons, you must interact with the application on the server at least as frequently as prompted that the session will be timing out; for example, by clicking Submit. If the session times out ***all new data and any changes made to both Event and Performance data since the last time you clicked Submit will be lost.***

It does no harm to click **Submit**; so click it often.

## 2.4 Selecting or Changing Reporting Month

The Reporting Month list box on the right side of the Main menu, displays the reporting periods that you are authorized to access and for which GADS data is available. Generally, this is determined by the Performance data.

When you first open the program, the software retrieves the performance and event data for the first unit displayed in the unit selection list box for the entire year based on the month displayed in the Reporting Month list box. For example, if the first unit displayed in the unit selection list box is Coffee Unit 1 and the Reporting Month is November 2014, then the software has retrieved from the database all event and performance records for Coffee Unit 1 for 2014.

As you input or edit the 2014 data for each unit you must click **Submit** on either the **Performance Data** or **Event Data** tab to ensure that the data is saved back to the master database tables.

**Note:** If you change the year for the current unit OR change to another unit without saving your work, all new data and any changes made since the last time you clicked **Submit** will be lost. It does no harm to click **Submit**; so click it often.

When entering new Performance data for the current month, be sure to click **Submit** at least once before changing the selection to a prior month otherwise, the Performance data for the month will be lost. Saving the data the first time “locks in” the month’s data and subsequently selecting a different month does not result in the loss of the data on the Data Entry form.

**Note:** Using the Portal's data entry form submits online corrections to the master database tables only if it passes the validation checks. All online corrections should also be performed in the User's GADS database.

The Event data is not affected by changes in Reporting Month unless the change results in a change to a different year. If the session times out

In addition, since the Web UI requires session timeouts for security reasons, you must interact with the application on the server at least as frequently as prompted that the session will be timing out; for example, by clicking **Submit**. If the session times out ***all new data and any changes made to both Event and Performance data since the last time you clicked Submit will be lost.***

It does no harm to click **Submit**; so click it often.

## 2.5 Status Indicator

The data status indicator is displayed just to the right of the Unit Selection list box, and has three display values:

Display	Meaning
MOD	Data has been revised (modified), but Error Check has not been run.
ERR	Error Check has been run; there are errors that must be corrected.
OK	Error Check has been run; no errors found.

Data records with errors cannot be saved back to the master database tables

## 2.6 Event Data (07)

Six general Event Data classifications are reported to GADS:

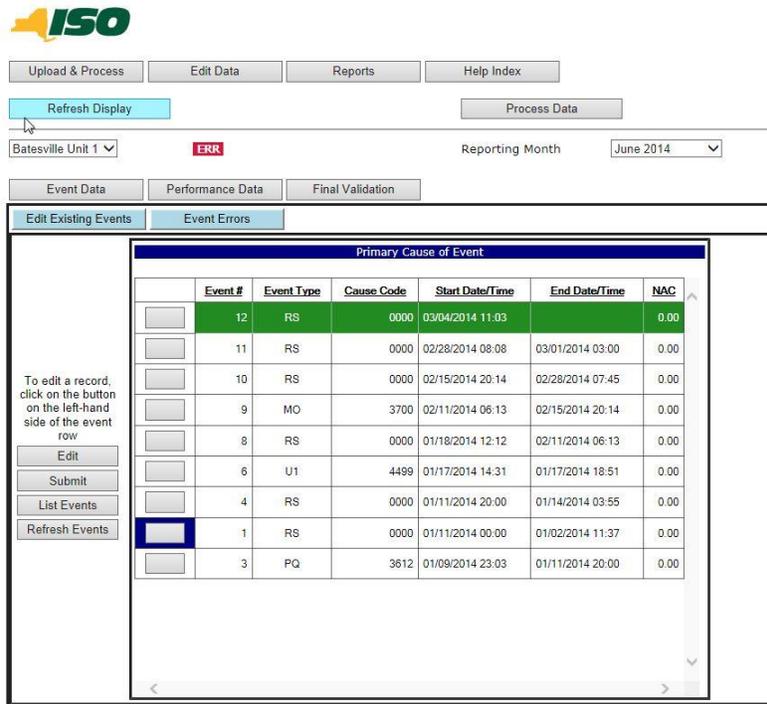
- Outages
- Deratings
- Reserve shutdowns
- Noncurtailing events (Not Required by the NYISO)
- Pumping
- Synchronous Condensing

Two distinct data make up the Event Report (07):

- Event Magnitude
- Primary Cause of Event

## 2.6.1 'Edit Existing Events' Tab

**Figure 2-2: Edit Existing Events**



The screenshot shows the 'Edit Existing Events' tab in the GADS Portal. The interface includes a navigation menu with 'Edit Existing Events' selected. A table titled 'Primary Cause of Event' displays a list of events with columns for Event #, Event Type, Cause Code, Start Date/Time, End Date/Time, and NAC. The event with ID 1 is highlighted. To the left of the table are buttons for 'Edit', 'Submit', 'List Events', and 'Refresh Events'. Above the table, there are dropdown menus for 'Batesville Unit 1' and 'Reporting Month: June 2014', along with a red 'ERR' indicator.

Event #	Event Type	Cause Code	Start Date/Time	End Date/Time	NAC
12	RS	0000	03/04/2014 11:03		0.00
11	RS	0000	02/28/2014 08:08	03/01/2014 03:00	0.00
10	RS	0000	02/15/2014 20:14	02/28/2014 07:45	0.00
9	MO	3700	02/11/2014 06:13	02/15/2014 20:14	0.00
8	RS	0000	01/18/2014 12:12	02/11/2014 06:13	0.00
6	U1	4499	01/17/2014 14:31	01/17/2014 18:51	0.00
4	RS	0000	01/11/2014 20:00	01/14/2014 03:55	0.00
1	RS	0000	01/11/2014 00:00	01/02/2014 11:37	0.00
3	PQ	3612	01/09/2014 23:03	01/11/2014 20:00	0.00

The layout of the Event Data (07) tab, shown in [Figure 2-2](#), displays a summary of all of the events that have occurred on the unit shown in the unit selection list box for the current calendar year shown in the Reporting Month list box. The event displays are not in any way tied to the “month” shown in the Reporting Month list box; only the year.

In addition, you can perform the following tasks:

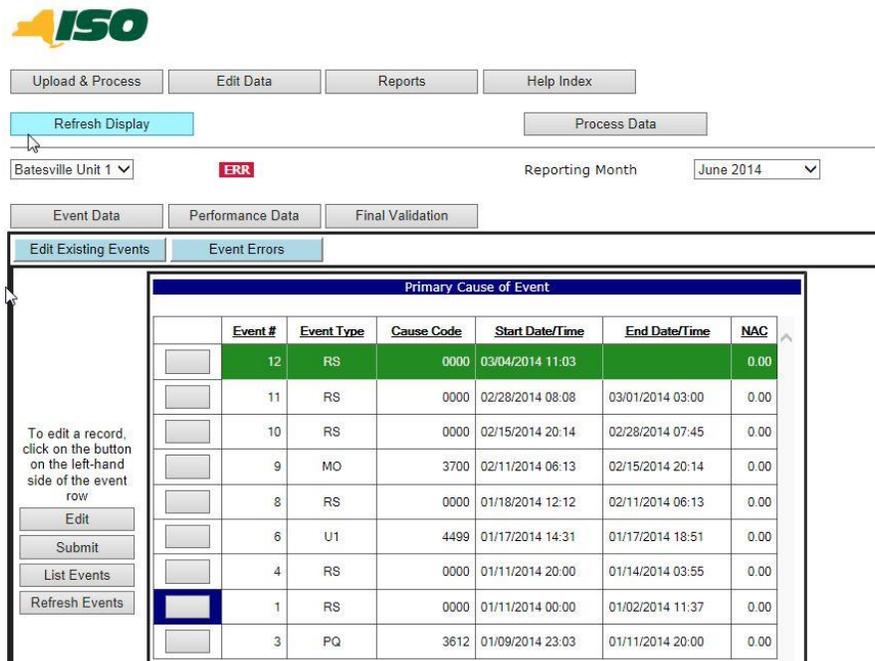
- Save any changed events back to the database server by clicking **Submit**
- List the event data by clicking **List Events**
- Refresh the displayed event data by clicking **Refresh Events**

Scroll bars allow you to scroll both up/down and left/right to view the full data set.

### 2.6.1.1 Editing an Event

To edit an existing Primary Cause of Event, highlight the event record in the Primary Cause section by clicking the button next to the record, and clicking on **Edit**, as shown in [Figure 2-3](#).

**Figure 2-3: Selecting an Event to Edit**



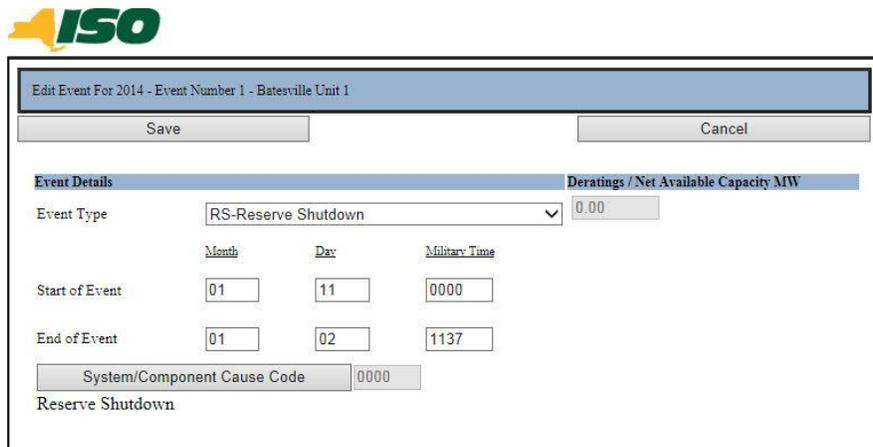
The screenshot shows the ISO software interface. At the top, there are navigation buttons: 'Upload & Process', 'Edit Data', 'Reports', and 'Help Index'. Below these are 'Refresh Display' and 'Process Data' buttons. A dropdown menu shows 'Batesville Unit 1' with a red 'ERR' indicator. To the right, 'Reporting Month' is set to 'June 2014'. Below this are 'Event Data', 'Performance Data', and 'Final Validation' buttons. The main area has two tabs: 'Edit Existing Events' (selected) and 'Event Errors'. A table titled 'Primary Cause of Event' is displayed with the following data:

	Event #	Event Type	Cause Code	Start Date/Time	End Date/Time	NAC
<input type="checkbox"/>	12	RS	0000	03/04/2014 11:03		0.00
<input type="checkbox"/>	11	RS	0000	02/28/2014 08:08	03/01/2014 03:00	0.00
<input type="checkbox"/>	10	RS	0000	02/15/2014 20:14	02/28/2014 07:45	0.00
<input type="checkbox"/>	9	MO	3700	02/11/2014 06:13	02/15/2014 20:14	0.00
<input type="checkbox"/>	8	RS	0000	01/18/2014 12:12	02/11/2014 06:13	0.00
<input type="checkbox"/>	6	U1	4499	01/17/2014 14:31	01/17/2014 18:51	0.00
<input type="checkbox"/>	4	RS	0000	01/11/2014 20:00	01/14/2014 03:55	0.00
<input checked="" type="checkbox"/>	1	RS	0000	01/11/2014 00:00	01/02/2014 11:37	0.00
<input type="checkbox"/>	3	PQ	3612	01/09/2014 23:03	01/11/2014 20:00	0.00

To the left of the table, there is a text instruction: 'To edit a record, click on the button on the left-hand side of the event row'. Below this instruction are four buttons: 'Edit', 'Submit', 'List Events', and 'Refresh Events'. The 'Edit' button for the first row (Event #1) is highlighted with a blue border.

After you press **Edit**, the software will display the form shown in [Figure 2-4](#). For existing events, the fields are populated with the current data. The cursor will automatically skip over all disabled fields as you move from field to field.

**Figure 2-4: Editing Existing Events**



Edit Event For 2014 - Event Number 1 - Batesville Unit 1				
Save		Cancel		
Event Details			Deratings / Net Available Capacity MW	
Event Type	RS-Reserve Shutdown			0.00
	Month	Day	Military Time	
Start of Event	01	11	0000	
End of Event	01	02	1137	
System/Component Cause Code			0000	
Reserve Shutdown				

As you enter data in each field and then move to the next, the program “validates” the data you just entered. However, in some cases, these validations are not done until you click **Submit** or **Save**.

In either case, you will be given clear indications of any errors that must be corrected before you can save the data back to the working copy of the database that you have loaded.

The screen includes a **Save** button and a **Cancel** button. **Save** records the data on the form in the database and returns you to the **Main** menu window. **Cancel** ends the current operation and returns you to the **Main** menu window.

If there are no errors on the Primary Cause of Event form, you can click one of the Save buttons to save the data and continue with data processing.

#### 2.6.1.2 Additional Features

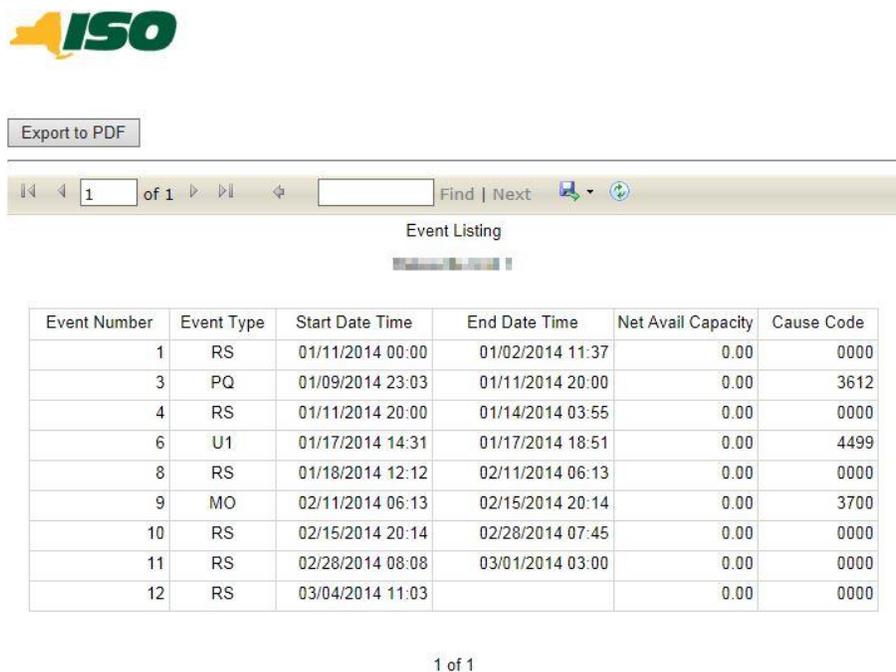
After Primary Cause of Event records have been created, the **Event Data (07)** tab form has several options and items of interest.

First, click **Submit** at any time to save the data. This is especially important when using a Web UI, since it has a “timeout” feature that requires that you save to the database server within the timeout window (30 minutes). Saving the data back to the database server resets the timer.

#### 2.6.1.3 List Events

On the data entry forms you can list the event records for the currently selected unit and year by pressing **List Events**. This will display the report shown in [Figure 2-5](#).

**Figure 2-5: Sample Event Listing**



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Event Listing

Event Number	Event Type	Start Date Time	End Date Time	Net Avail Capacity	Cause Code
1	RS	01/11/2014 00:00	01/02/2014 11:37	0.00	0000
3	PQ	01/09/2014 23:03	01/11/2014 20:00	0.00	3612
4	RS	01/11/2014 20:00	01/14/2014 03:55	0.00	0000
6	U1	01/17/2014 14:31	01/17/2014 18:51	0.00	4499
8	RS	01/18/2014 12:12	02/11/2014 06:13	0.00	0000
9	MO	02/11/2014 06:13	02/15/2014 20:14	0.00	3700
10	RS	02/15/2014 20:14	02/28/2014 07:45	0.00	0000
11	RS	02/28/2014 08:08	03/01/2014 03:00	0.00	0000
12	RS	03/04/2014 11:03		0.00	0000

1 of 1

#### 2.6.1.4 Display Features

All open-ended events (both full outages and deratings) with the End of Event date/time left blank are displayed in the Primary Cause of Event section with a green background, as shown in [Figure 2-6](#).

Figure 2-6: Main Window Color Codes

The screenshot shows the 'Event Errors' tab with the following table data:

Event #	Event Type	Cause Code	Start Date/Time	End Date/Time	NAC
12	RS	0000	03/04/2014 11:03		0.00
11	RS	0000	02/28/2014 08:08	03/01/2014 03:00	0.00
10	RS	0000	02/15/2014 20:14	02/28/2014 07:45	0.00
9	MO	3700	02/11/2014 06:13	02/15/2014 20:14	0.00
8	RS	0000	01/18/2014 12:12	02/11/2014 06:13	0.00
6	U1	4499	01/17/2014 14:31	01/17/2014 18:51	0.00
4	RS	0000	01/11/2014 20:00	01/14/2014 03:55	0.00
1	RS	0000	01/11/2014 00:00	01/02/2014 11:37	0.00
3	PQ	3612	01/09/2014 23:03	01/11/2014 20:00	0.00

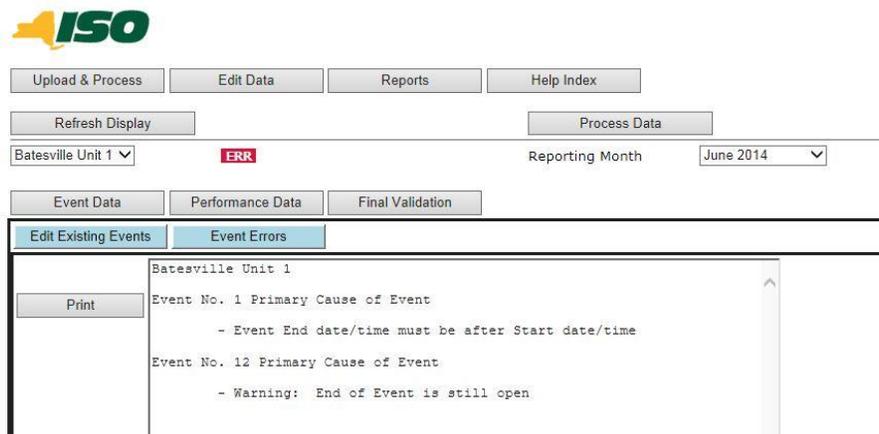
These color codes are visual clues to your event data status.

Clicking **List Events** provides an event data list that may be viewed online or printed.

### 2.6.2 'EventErrors' Tab

The **Event Errors** tab displays all warnings and errors existing on the units you are authorized to access, as shown in [Figure 2-7](#). To reveal all warnings for your units, check the "Show Warnings" box and click on the Final Validation button. These can be printed to allow offline resolution of the indicated error or warning.

**Figure 2-7: Event Errors**



It is highly recommended that you review the list of errors and warnings to ensure that all error and warning messages are expected. Warnings do not necessarily need to be corrected—they are not fatal errors, but still might lead to unexpected problems.

For example, a derating that started in January and was inadvertently left “open” will only generate a warning since this is not necessarily an error, and may be correct; however, the calculated EFORD (Equivalent Demand Forced Outage Rate) and EAF (Equivalent Availability Factor) values calculated with this data in GADS will not be correct if the derating should have been closed back in January.

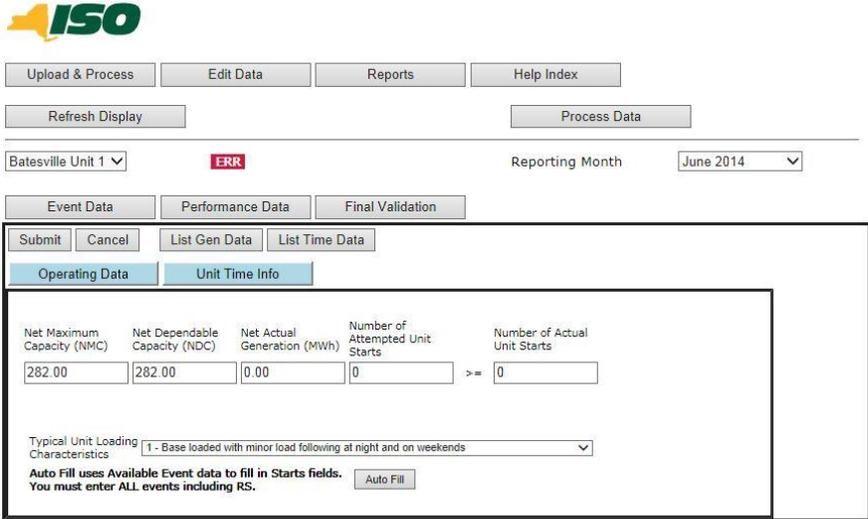
## 2.7 ‘Performance Data (05)’ Tab

Performance data provide information, in a summarized format, pertaining to overall unit operation during a particular month in a given year.

### 2.7.1 ‘Operating Data’ Tab

The data provided on the Operating Data tab, shown in [Figure 2-8](#), are used to calculate performance statistics.

**Figure 2-8: Operating Data**



The screenshot shows the ISO GADS portal interface. At the top, there are navigation buttons: 'Upload & Process', 'Edit Data', 'Reports', and 'Help Index'. Below these are 'Refresh Display' and 'Process Data' buttons. The main content area is for 'Batesville Unit 1' in 'June 2014'. A red 'ERR' message is displayed. The 'Operating Data' tab is selected, showing a table with the following data:

Net Maximum Capacity (NMC)	Net Dependable Capacity (NDC)	Net Actual Generation (MWh)	Number of Attempted Unit Starts	Number of Actual Unit Starts
282.00	282.00	0.00	0	0

Below the table, there is a 'Typical Unit Loading Characteristics' dropdown menu set to '1 - Base loaded with minor load following at night and on weekends'. A note states: 'Auto Fill uses Available Event data to fill in Starts fields. You must enter ALL events including RS.' An 'Auto Fill' button is also present.

### 2.7.1.1 Auto Fill

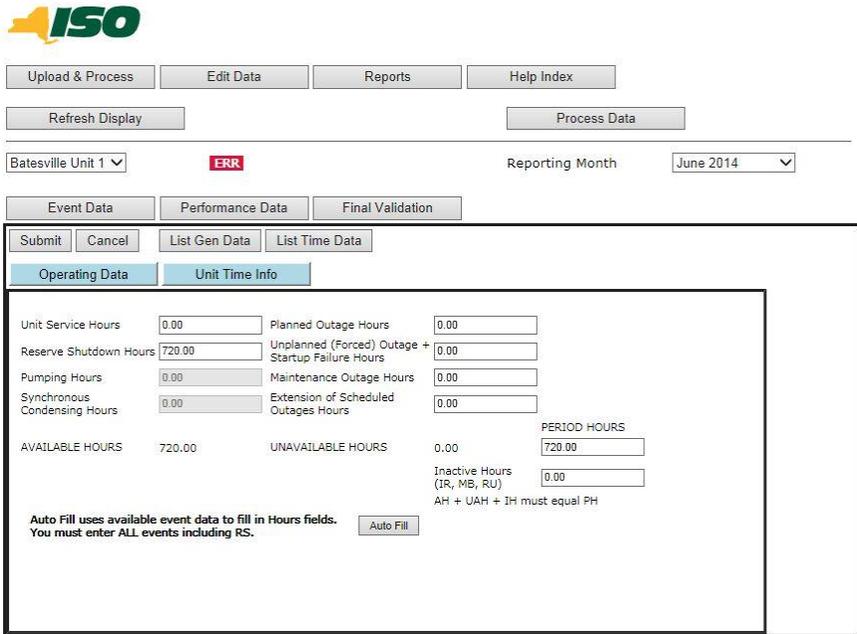
Auto Fill uses available event data to fill in the Attempted and Actual Unit Starts fields. You must, however, fill in all event data, including RS events.

The starts entered into these fields should be derived independently, based on plant or control room logs. The program uses these start data as a cross-check with the event data, to determine if all full outage events have been entered correctly. While the feature is available for your use, please use with caution, and understand that using Auto Fill impacts data validation.

### 2.7.2 'Unit Time Info' Tab

[Figure 2-9](#) displays the **Unit Time Info** tab. The unit's hours must be completed as specified by the NERC GADS DRI and the Installed Capacity Manual.

**Figure 2-9: Unit Time Info**



### 2.7.2.1 Auto Fill

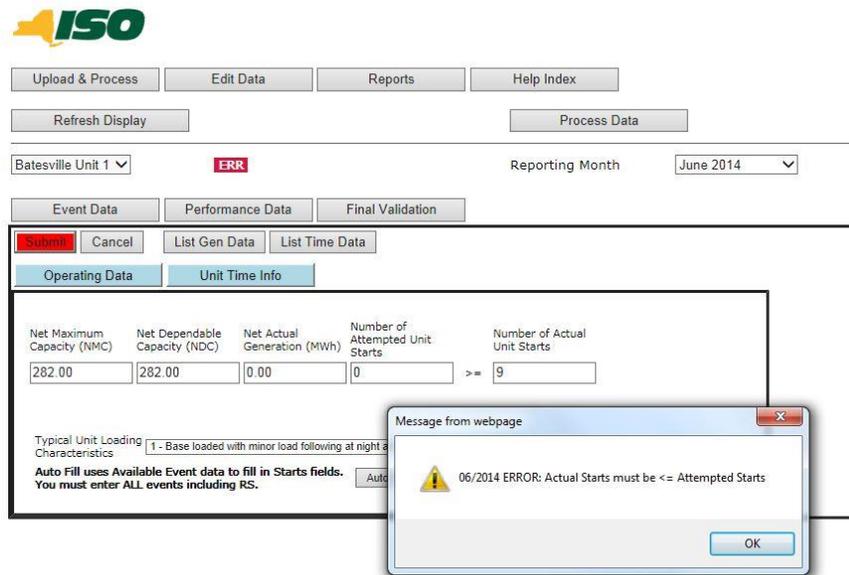
Auto Fill uses available Event data to fill in the various hours fields, however, you must fill in all event data, including Reserve Shutdown (RS) events.

The hours entered into these fields should be derived independently, based on plant or control room logs. The program uses these data as a cross-check with the event data to determine if event start and ending event date/times have been entered correctly. While the feature is available for your use, it should be used with caution, particularly because it can impact data validation.

### 2.7.2.2 Errors

Errors are identified and displayed. In some cases, holding your mouse pointer over the red indicator displays a tool tip detailing the error message, as shown in [Figure 2-10](#).

**Figure 2-10: Tool Tip Detailing Error**



### 2.7.3 List Performance Data

On the **Performance Data** tab are two buttons, **List Gen Data** and **List Time Data**, to produce the reports shown in

[Figure 2-12: Sample Performance Listing – List Time Data](#)

and [Figure 2-12](#). These reports may also be exported to PDF format if desired.

**Figure 2-11: Sample Performance Listing – List Gen Data**



Export to PDF

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Capacity/Generation/Starts Performance Data

Month	Net Max Cap	Net Dep Cap	Net Generation MWh	Attempted Starts	Actual Starts	Typical Unit Loading Characteristics
01	282.00	292.00	66,308.00	3	9	0 -
02	282.00	282.00	0.00	1	1	0 -
03	282.00	282.00	16,454.00	1	1	0 -
04	282.00	282.00	0.00	0	0	0 -
05	282.00	282.00	0.00	0	0	0 -
06	282.00	282.00	0.00	0	9	1 - Base loaded with minor load-following at night and on weekends
YTD			82,762.00	5	20	

**Figure 2-12: Sample Performance Listing – List Time Data**



Export to PDF

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7/11/2014 3:44:44 PM

Hours Summary Performance Data

Month	Service Hours	RS Hours	Pumping Hours	Synch Cond Hours	Planned Outage Hours	Forced Outage Hours	Maint Outage Hours	Ext of Sched Outages	Period Hours
01	279.39	415.33	0.00	0.00	44.95	9.33	0.00	0.00	744.00
02	0.38	561.60	0.00	0.00	0.00	0.00	110.02	0.00	672.00
03	80.05	662.95	0.00	0.00	0.00	0.00	0.00	0.00	743.00
04	0.00	720.00	0.00	0.00	0.00	0.00	0.00	0.00	720.00
05	0.00	744.00	0.00	0.00	0.00	0.00	0.00	0.00	744.00
06	0.00	720.00	0.00	0.00	0.00	0.00	0.00	0.00	720.00
YTD	359.82	3,823.88	0.00	0.00	44.95	9.33	110.02	0.00	4,343.00

## 2.8 Final Validation

The Final Validation step performs a consistency error check between the Event and Performance data. This step is required before you can upload data to the master databases after making ONLINE corrections.

As you enter data on each form, it is possible to validate the data in some of the fields immediately (e.g., the validation can check if the date is a valid date.)

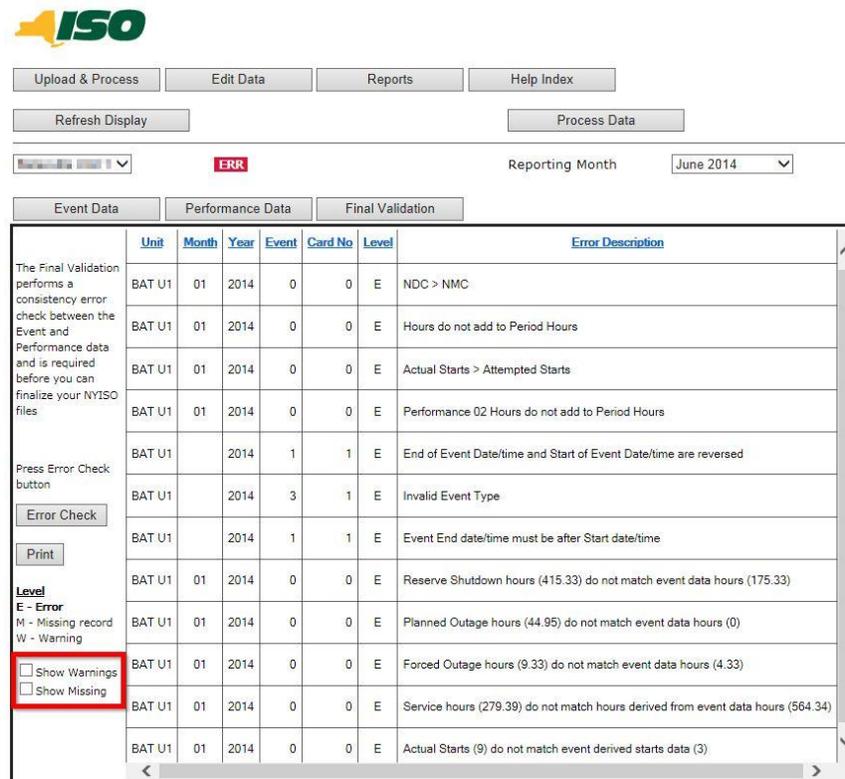
However, some data can only be validated when **Submit** is clicked on either the **Performance Data (05)** or **Event Data (07)** tab, as it depends upon consistency between two or more fields on a form (e.g., the validation can check whether the number of attempted starts is greater than or equal to the number of actual starts.)

On the **Final Validation** tab, clicking on **Error Check** causes the software to validate the consistency between the event and performance data. This process can only be done after all of the data for the month has been entered. Included in these validation checks are:

- Starts on the Performance 01 record versus the starts determined from the event data
- Hours on the Performance 02 record versus the hours calculated from the event data
- Derating available capacities being less than the dependable capacities on the Performance 01 record

While these are not the only validations performed, they indicate the types of consistency checking that is done before the data can be validated.

**Figure 2-13: Final Validation**



The screenshot shows the NYISO Final Validation interface. At the top, there are navigation buttons: Upload & Process, Edit Data, Reports, and Help Index. Below these are Refresh Display and Process Data buttons. A dropdown menu shows 'ERR' and the Reporting Month is set to 'June 2014'. The 'Final Validation' tab is selected, displaying a table of errors.

Unit	Month	Year	Event	Card No	Level	Error Description
BAT U1	01	2014	0	0	E	NDC > NMC
BAT U1	01	2014	0	0	E	Hours do not add to Period Hours
BAT U1	01	2014	0	0	E	Actual Starts > Attempted Starts
BAT U1	01	2014	0	0	E	Performance 02 Hours do not add to Period Hours
BAT U1		2014	1	1	E	End of Event Date/time and Start of Event Date/time are reversed
BAT U1		2014	3	1	E	Invalid Event Type
BAT U1		2014	1	1	E	Event End date/time must be after Start date/time
BAT U1	01	2014	0	0	E	Reserve Shutdown hours (415.33) do not match event data hours (175.33)
BAT U1	01	2014	0	0	E	Planned Outage hours (44.95) do not match event data hours (0)
BAT U1	01	2014	0	0	E	Forced Outage hours (9.33) do not match event data hours (4.33)
BAT U1	01	2014	0	0	E	Service hours (279.39) do not match hours derived from event data hours (564.34)
BAT U1	01	2014	0	0	E	Actual Starts (9) do not match event derived starts data (3)

On the left side of the table, there is a legend for error levels: E - Error, M - Missing record, W - Warning. Below the legend, there are checkboxes for 'Show Warnings' and 'Show Missing', both of which are currently unchecked.

[Figure 2-13](#) shows a list of errors that can result from the final validation. Any errors that result from this error check will block the unit’s data from being validated. “Warnings” do not block the data from being validated.

The fields displayed are:

- **Unit** – this is the short name for the unit

- **Month** – for performance errors, this is the calendar month that has the error
- **Year** – this is the calendar year in which the event or performance error occurred
- **Event** – for event errors, this is the event number
- **Record No.** – for event errors, this is the record number that has the error
- **Level** – this is either an **E** (error) or a **W** (warning). Errors are generally “fatal” and will prevent you from saving the data on this unit. Warnings are not fatal, but should be reviewed
- **Error Description** – a description of the error

The displayed error messages can be used as a map to correct the event and performance data as appropriate. Clicking on **Error Check** will show if all errors have been resolved. If errors still exist, repeat these steps as necessary until all errors are resolved.

It is highly recommended that you review the list of errors and warnings to ensure that all error and warning messages are expected. Warnings do not necessarily need to be corrected; they are not fatal errors, but may lead to unexpected problems.

For example, a derating that started in January and was inadvertently left “open” will only generate a warning since this is not necessarily an error; and it may be correct.

However, the calculated EFORD and EAF values calculated in GADS using this data will not be correct if the derating should have been closed back in January.

Therefore, it is important to review the list of errors and warnings each time the Error Check is run.

**Figure 2-14: Process Data**



Once all of the units have passed the Final Validation, press the Process Data button to finish the processing of your units' data including the Analysis portion of the Upload & Process.

## 2.9 Exiting the Program

Be sure to **Submit** your current work before exiting the program; otherwise, the data entered and work performed since the last **Submit** is not saved.

Exit the software by closing the browser window in your normal manner.