New York ISO
Independent System Operator

UG 16

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

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Revision History

Version	Effective Date	Revisions
1.0	10/14/2014	Initial Release
2.0	08/25/2021	Recertification ➤ Branding & formatting updated ➤ Added PU and CO event requirement
2.1	09/19/2023	Recertified Global ➤ Updated branding and formatting ➤ Corrected broken hyperlinks
3.0	09/23/2025	Recertified Full rewrite due to transition from GADSOS to PowerGADS application

1. Introduction

Two types of data are reported in the NYISO's Generator Availability Data System ("GADS"): Event and Performance. Event data is reported in the Event Report (07) format and performance data in the Performance Report (05) format. Each of these formats are described in detail in Sections III and IV of the North American Electric Reliability Corporation ("NERC") GADS Data Reporting Instructions.

> **Note:** Although the formats are the same, the event and performance data are not necessarily the same and are governed by the NYISO's tariff and ISO Procedures.

The NYISO uses the GADS to collect GADS Data and data equivalent to GADS Data, consistent with NYISO Market Administration and Control Area Services Tariff ("Services Tariff") Section 5.12.5 and the ICAP Manual Section 4.4. The NYISO uses the GADS Data and data equivalent to GADS Data to develop assumptions for studies and assessments, including planning and resource adequacy studies. In accordance with Attachment K of the *Installed Capacity Manual* ("*ICAP Manual*"), Installed Capacity Suppliers shall provide the NYISO GADS Data or data equivalent to GADS Data pertaining to the previous month, no later than the 20th day of each month. For example, the GADS Data pertaining to a System Resource's operations during the month of April shall be provided to the NYISO on or before May 20th.

The NYISO GADS Portal includes a data lock feature that prevents modification of submitted and processed data after the monthly close-out date, which is the 20th day of the current month. Users may only upload or modify uploaded data if the close-out date has not yet passed. For example, in August, data for July can be edited until August 20th; after August 20th, July data will be locked. Data for all prior months will have already been locked. To modify locked historical data, users must request approval from the GADS Administrator to unlock the data for re-submission. For contact information, see Appendix B: NYISO GADS Administrator Contact Information.

1.1 Web User Interface Login

The user interface ("UI"), shown in Figure 1-1, is the login screen for the NYISO GADS Portal. If you are an existing NYISO GADS Portal user, use your NYISO Market Information System ("MIS") credentials to login https://nyiso-gads.integportal.com/

To gain access to the NYISO GADS Portal, the user needs the following:

1. An active MIS account with a NAESB Certificate and the GADS – GADS Observer Privilege

2. A formal request for access to the NYISO GADS Portal sent via email from the Generator(s)'s Organizational MIS Administrator to the NYISO GADS Administrator. For contact information, see Appendix B: NYISO GADS Administrator Contact Information

For more information on MIS accounts and NAESB Certificates please email us at: stakeholder_services@nyiso.com

Figure 1-1: Login Screen

1.2 Start Up Screen

Figure 1-2 shows the opening screen displayed **after the user has been authenticated**. This screen shows all of the options available to upload and review GADS Data each month.

Figure 1-2: Opening Screen
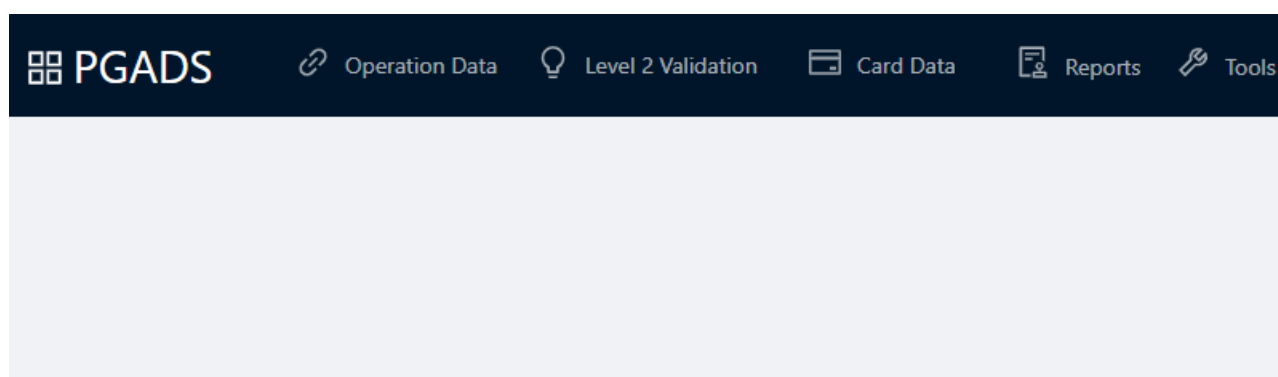
Under the Operation Data menu, users can upload and review GADS Data. The operation data menu contains two items:

- ▪ Monthly Operation View – Allows both event and performance data to be reviewed.

- Data Import – Provides users the ability to upload operation data from an outside source into the NYISO GADS Portal

Under the **Level 2 Validation** menu, there are two items:

- Level 2 Validation - Allows the user to execute a Level 2 Validation, which performs cross-checking between the event data and performance data.

- Level 2 Validation Status - Allows the user to review the current validation status of units in the NYISO GADS Portal.

Under the **Card Data** menu, users can review event and performance data. The Card Data menu contains three items:

- Card95 – Performance Data - Contains all NYISO-required performance data statistics, including generation, capacities, and run-time hours.

- Card97 – Event Data - Contains all NYISO-required event data, including event identification, event description, and event time data.

- Card History – Provides the user a modification history for the event and performance data uploaded to the NYISO GADS Portal.

Under the **Reports** menu, users may pull statistical or event information on their validated GADS Data. The Reports menu contains two items:

- Reports – Users may request up to four different statistical reports on their validated GADS Data.

- Completed Reports – Users may retrieve reports that have run in the background.

The **Tools** menu provides some miscellaneous tools that may be useful:

1. Cause Code Lookup – Provides the ability to search for event cause codes and descriptions.
2. Event Duration Calculator – Allows users to calculate the duration of an event in hours.
3. Guide – Provides access to the Power GADS User's Guide.
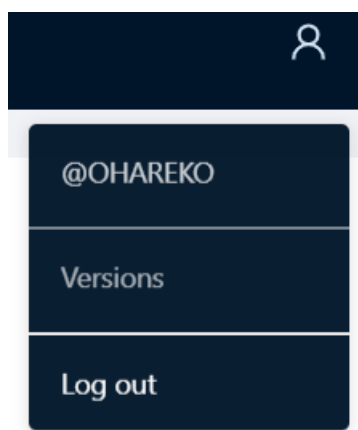
1.3 Person Icon

The Person Icon appears on the far right of the menu. It displays the username of the user currently logged into the NYISO GADS Portal. The **Versions** option will display the current app and database release

version of the NYISO GADS Portal. Users may also log out of the NYISO GADS Portal using the **Log Out** option.

Figure 1-3: Person Icon Menu

1.4   Selecting or Changing Units

The unit selection function displays the generating units that the user is authorized to access and is available on multiple screens within the NYISO GADS Portal.

1.4.1 Monthly Operation View

The unit selection function on the Monthly Operation View, under the Operation Data menu, is a dropdown list that is sorted alphabetically by company name. To select a specific unit, first find the company name and utility code from the list. Click on the company name to see the associated unit name(s) and code(s), then select the specific unit.

Figure 1-4: Monthly Operation View Unit Selection
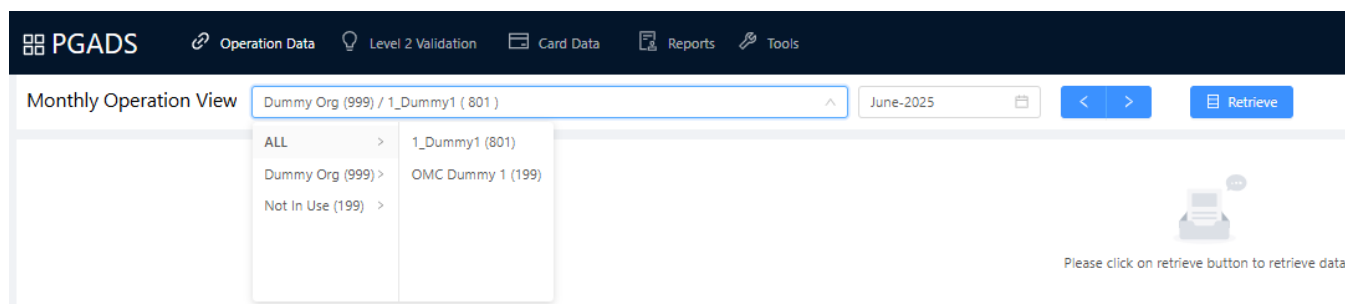
1.4.2 Card Data/ Reports/ Level 2 Validation

The unit selection function on the Level 2 Validation, Card Data, or Reports screens is available as a searchable list of all units to which the user has access. Users may select individual units by clicking on the unit's name or view all their units by selecting the **Select All** button. Selected units will be displayed with a blue check box. Users may also search for a specific unit by using the search bar on the top right by inputting either the unit name or unit code.

**Figure 1-5: Selecting a Unit**

1.5   Selecting or Changing Reporting Month

The reporting month selection function allows the user to select either a specific date or a date range and is available on multiple screens within the NYISO GADS Portal.
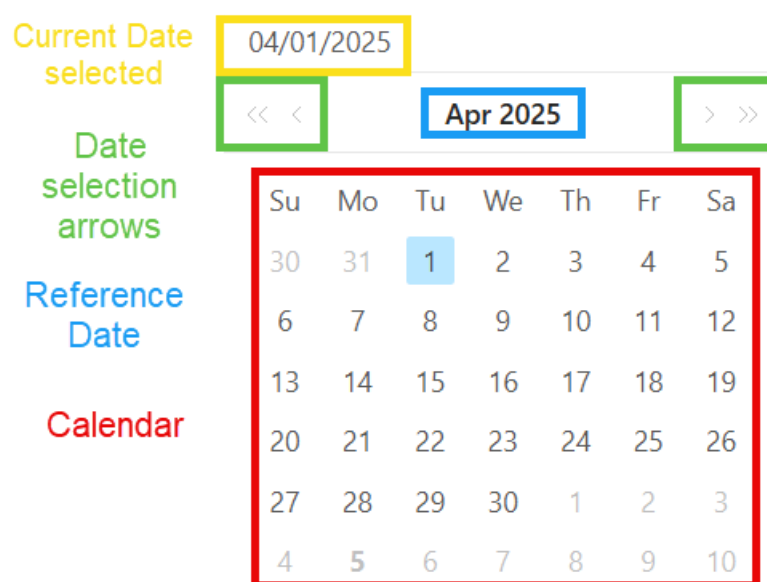
The "Month-Year" date selection function, shown in Figure 1-6, is the most common date selection and has multiple navigation options. This data selection function allows the user to directly click the month-year it wishes to view. The double selection arrows "<<" or ">>" will move the currently displayed date backwards or forwards, respectively, by one year. The Reference Date may also be selected to see a full list of available year options. The month must be selected from the available month selection list.

Figure 1-6: Date "Month-Year" Selection
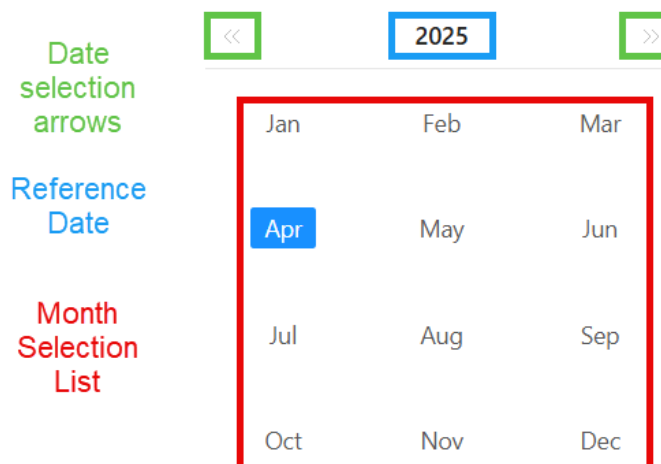
The "mm/dd/yyyy" date selection function, shown in Figure 1-7, has multiple navigation options. The user may enter the date directly into the topmost text box or use the navigation options to select the required date. The double selection arrows "<<" or ">>" will move the currently displayed date backwards or forward, respectively, by one year. The single selection arrows "<" or ">" will move the currently displayed date backwards or forward, respectively, by one month. The Reference Date may also be selected, either the month or year, to be able to see a full list of available date options. The day may be selected from the displayed calendar options.

Figure 1-7: Date "mm/dd/yyyy" Selection

2. Uploading GADS Data

To upload GADS Data, the user must follow the steps listed below. These steps assume that a valid GADS ASCII data file(s) has been created, as needed, prior to logging into the NYISO GADS Portal. The minimum NYISO GADS format requires the following subset of records:

1. Performance 01 Record

2. Performance 02 Record

3. Event 01 Record

4. Event 02 Record

> *Note:* These records have additional data fields that are not required in the minimum NYISO GADS format. See ICAP Manual Attachment K, available on the NYISO website, for more information

To upload the ASCII file(s), under the **Operation Data** menu, select **Data Import**.

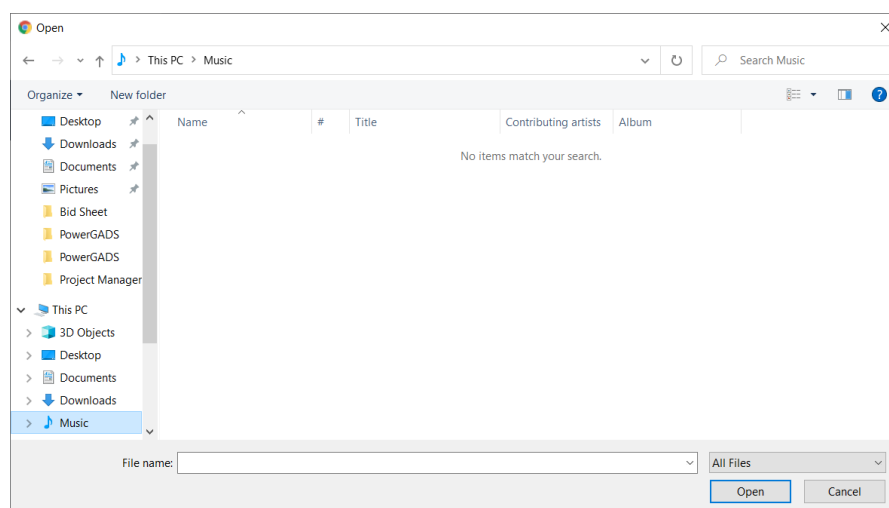**Figure 2-1: Data Upload Screen**
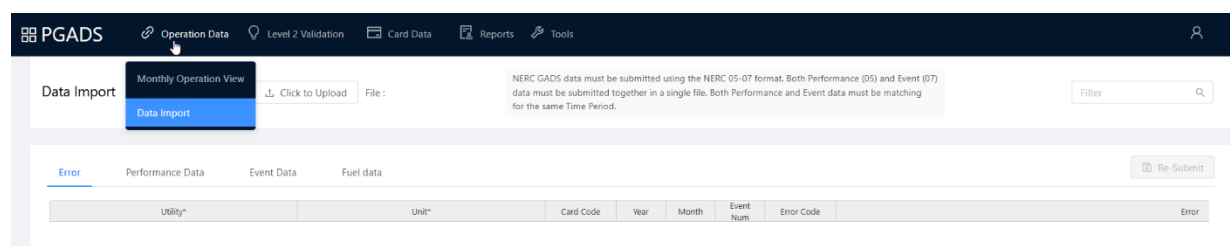
1. Select the **Click to Upload** button shown in Figure 2-2 to initiate a dialogue box that helps the user locate the file to upload from within the user's network as shown in Figure 2-3.

2. After you have selected the files to upload, click the **Open** button

Figure 2-2: Data Import Screen
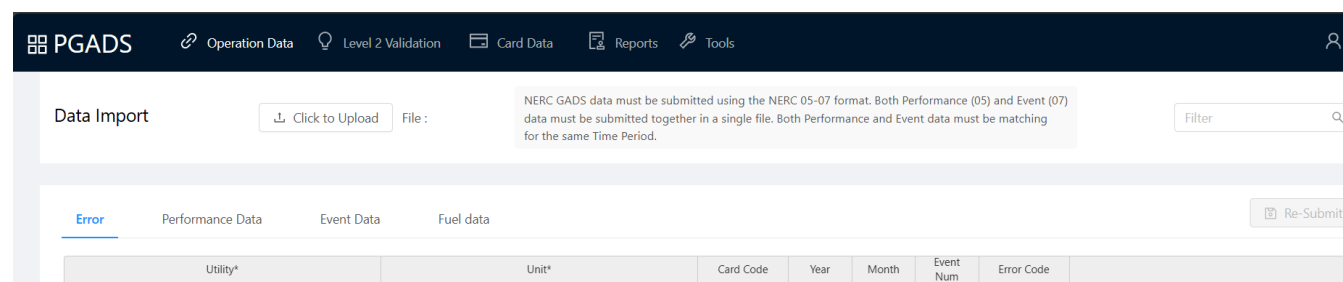
Figure 2-3: File Selections Screen

Once the system receives the uploaded file, a Level 1 Validation is automatically performed. If the data upload was successful, a prompt will appear on the screen, stating the data upload was successful and that the user should perform a Level 2 Validation to complete their monthly GADS Data submission, as shown in Figure 2-4.
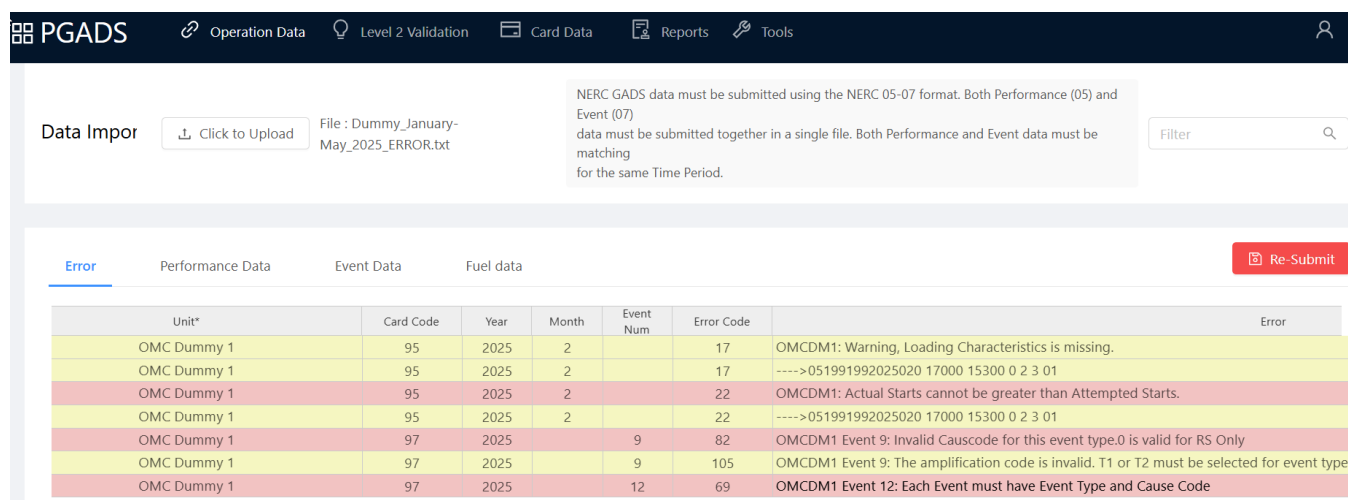
Figure 2-4: Level 1 Validation
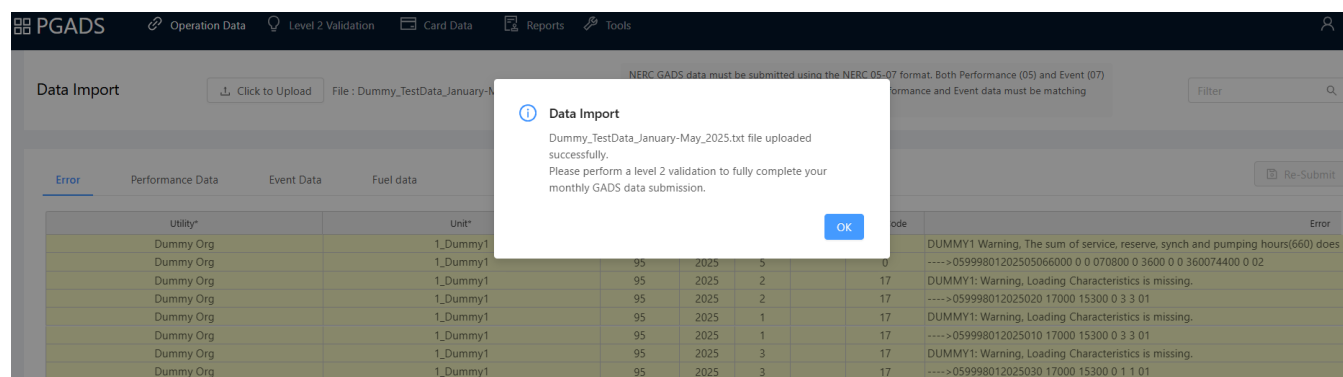
If an error is encountered during the Level 1 Validation, an error log is displayed on the screen. The error log will provide a written description of the error and, whenever possible, the line in the data upload file causing the error. For example, in Figure 2-5, the first row provides a written description of the error, and the second row provides the line in the data upload file causing the error. Within PowerGADS, there are two types of data import errors: (1) fatal errors: highlighted in red and (2) warnings: highlighted in yellow. The system will accept a data upload file as long as a fatal error is not flagged during the Level 1 Validation. Refer to

Appendix A: GADS Level 1 and 2 Error Messages for Level 1 Validation Error Codes.

Figure 2-5: Level 1 Validation Error Messages

Unit*	Card Code	Year	Month	Event Num	Error Code	Error
OMC Dummy 1	95	2025	2		17	OMCDM1: Warning, Loading Characteristics is missing.
OMC Dummy 1	95	2025	2		17	---->051991992025020 17000 15300 0 2 3 01
OMC Dummy 1	95	2025	2		22	OMCDM1: Actual Starts cannot be greater than Attempted Starts.
OMC Dummy 1	95	2025	2		22	---->051991992025020 17000 15300 0 2 3 01
OMC Dummy 1	97	2025		9	82	OMCDM1 Event 9: Invalid Causcode for this event type.0 is valid for RS Only
OMC Dummy 1	97	2025		9	105	OMCDM1 Event 9: The amplification code is invalid. T1 or T2 must be selected for event type
OMC Dummy 1	97	2025		12	69	OMCDM1 Event 12: Each Event must have Event Type and Cause Code

> ***Note:*** If one or more fatal errors are encountered during the data upload, the entire content of the data upload file will be rejected.
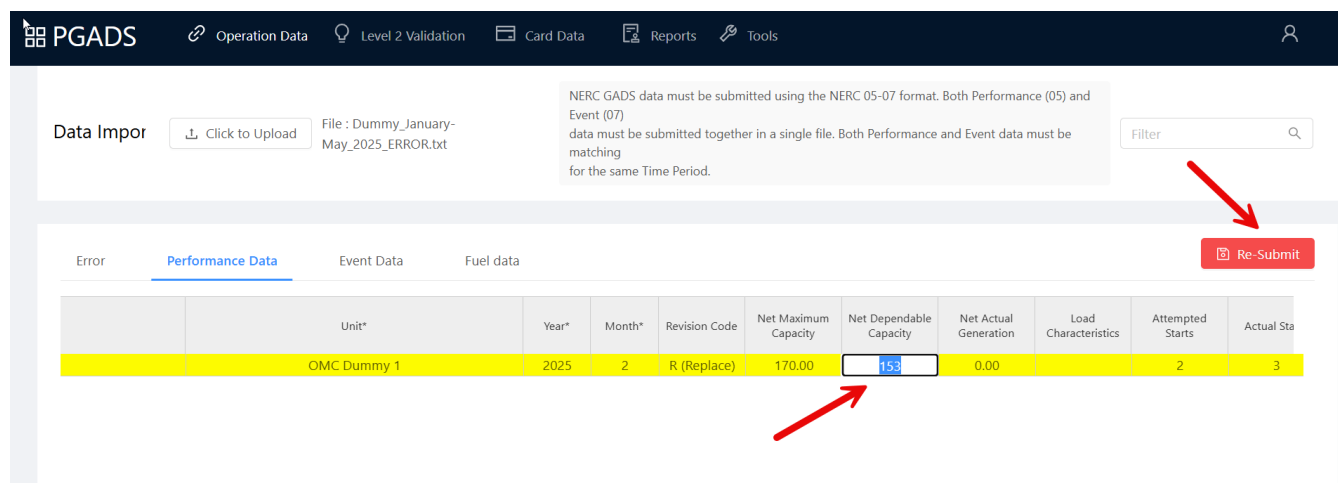>
> ***Note:*** Data imports are subject to a Data Lock imposed by the NYISO GADS Administrator. Once the data submission deadline has passed, the upload mechanism will prevent the user from uploading "lockout" data. However, the NYISO GADS Administrator has the ability to release the Data Lock, if requested. Refer to Section 1 of this User's Guide for more information about the PowerGADS Data Lock feature.

In instances when a fatal error is encountered during the Level 1 Validation, the user has two options to correct the error. The first option is for the user to correct the GADS Data offline and re-upload the corrected data. The second option is for the user to navigate to the Event Data tab or Performance Data tab and edit the GADS DATA online. The user will need to double click on the data field to make it editable; then the user must click the **Re-Submit** button to save the edit. See Figure 2-6.

> ***Note:*** Not all errors and warnings can be corrected within the NYISO GADS Portal, and some may require the user to edit the GADS Data offline.
>
> ***Note:*** If a user chooses to edit the GADS Data online, the user must reflect the exact changes made online in its user records offline, so the user's online and offline records are an exact match.
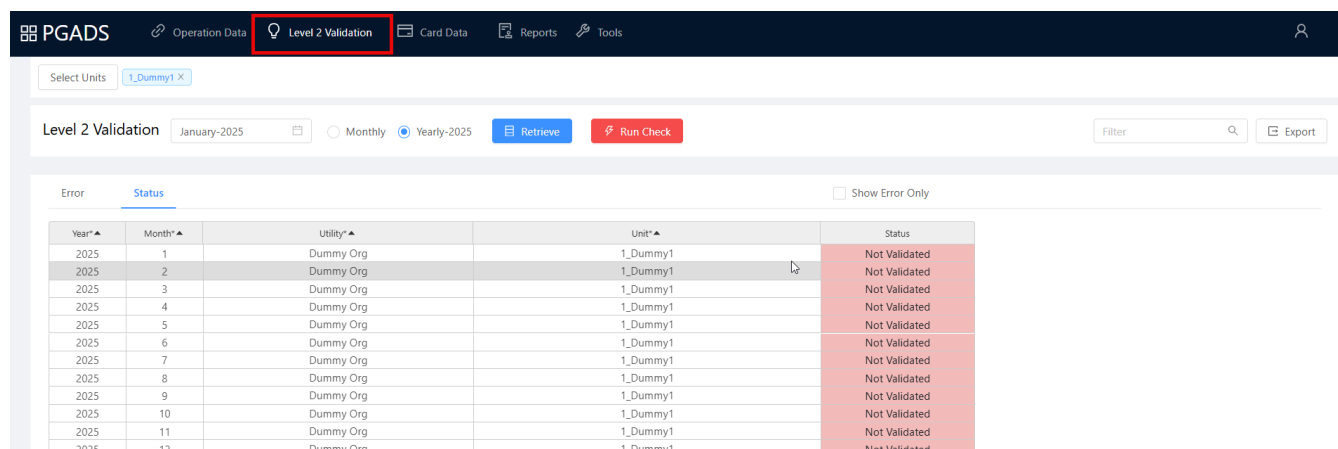
Figure 2-6: Editing on Data Import Screen

3. After the user has successfully uploaded the data file(s) and received the "data successfully uploaded" prompt (shown in Figure 2-4), click on **Level 2 Validation** and then select the **Validation** option for the system to validate both the event and performance data for consistency.

    1. Click the **Select Units** button and select all units upon which the user wishes to perform a Level 2 Validation.

    2. Click the **OK** button.

    3. Select the **Yearly** button.

    4. Click the **Run Check** button.

Figure 2-7: Running Level 2 Validation

If the Level 2 Validation results in no errors, the calculated data for each unit can be viewed for each month by pressing either the **Reports** or **Monthly Operation View** buttons.

If an error is encountered during the Level 2 Validation, an error log is displayed on the screen. The error messages are color-coded depending on the severity of the error:

- Fatal errors are colored red. When a fatal error is found, statistical data is not generated for the given unit, year, and month, which impedes the calculation of Equivalent Demand Forced Outage Rate ("EFORd") and other metrics. All fatal error messages must be corrected before statistics can be generated.

- Warnings are colored yellow. Warnings usually are errors that are imposed by NERC that do not impede the calculation of metrics. Warnings do not impede the generation of statistical data. However, all warnings should eventually be cleared because they could impede the calculation of EFORd and other metrics.

> *Note:* When multiple units are selected to run the Level 2 Validations, statistics are generated for the units that pass the test. Only the units that do not pass the test have to be re-validated.

Figure 2-8: Running Level 2 Validation with Errors

If errors are identified, the user can resolve the error(s) by:

(1) Correcting the GADS Data offline and re-uploading the Year-to-Date ("YTD") data records for those units with identified errors.

(2) If there are only event data errors, the user has the option to upload YTD event data file(s) for only the unit(s) that have errors. Likewise, if there are only performance data errors, the user has the option to upload YTD performance data file(s) for only the unit(s) that have errors.

For more information on uploading GADS Data, please refer to Figure 2-1 through Figure 2-4.

> *Note:* If a user is reuploading data, the system will overwrite the previous data with the newly updated data as long as the user is not attempting to re-upload data for a period that has already been locked. To modify locked historical data, users must request approval from the GADS Administrator to unlock the data for re-submission. For contact information, see Appendix B: NYISO GADS Administrator Contact Information.

3. Card97 – Event Data

The Card97 – Event Data screen enables the user to view Card97 records. Start by selecting a unit using the **Select Units** button at the top of the screen, selecting the data year, and lastly selecting the **Retrieve** button. Event data may be downloaded into either a CSV or XLS file format by using the **Export** button. The export file will only contain the data currently retrieved on the Card97 – Event Data screen.

Figure 3-1: Card97 Screen

4. Card95 – Performance Data

The Card95 – Performance Data screen enables the user to view Card95 records. Start by selecting a unit using the **Select Units** button at the top of the screen, selecting the date range, and lastly selecting the **Retrieve** button. Performance data may be downloaded into either a CSV or XLS file format by using the **Export** button. The export file will only contain the data currently retrieved on the Card95 – Performance Data screen.

Figure 4-1: Card95 Screen

5. Level 2 Validation

The Level 2 Validation screens allow the user to execute Level 2 Validations and check the current validation statuses of all units. The Installed Capacity Suppliers must validate the GADS Data pertaining t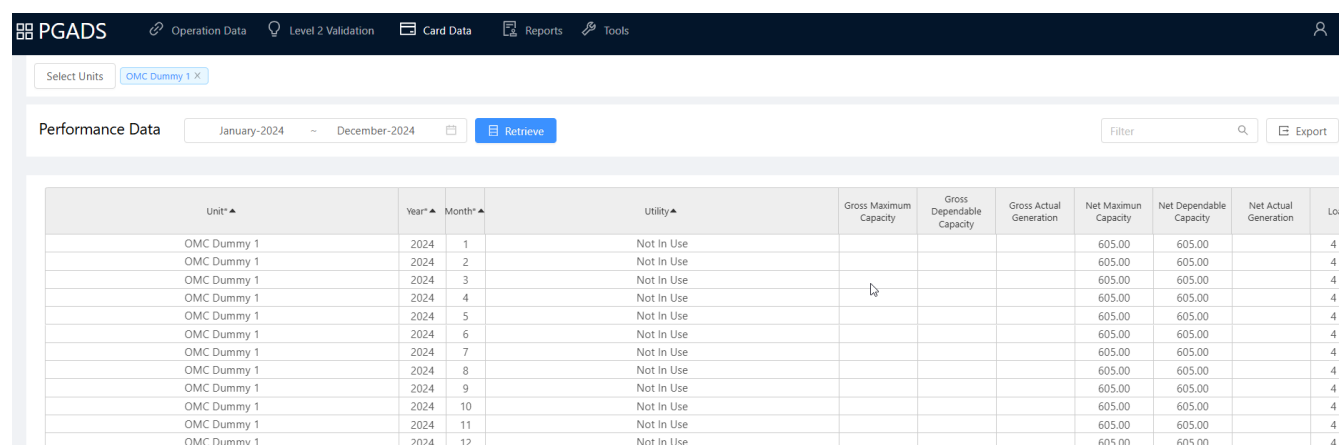o the previous month, no later than the 20th day of each month. The Level 2 Validation cross checks the submitted event and performance data. When no errors are encountered, the data is analyzed and converted into outage and performance statistics.

5.1 Level 2 Validation

The Level 2 Validation screen allows the user to perform a Level 2 Validation. This screen must be used prior to creating reports or performing calculations.

To validate a unit(s)'s data:

1. Click the **Select Units** button and select all units in "not validated" status.

2. Click the **OK** button.

3. Select the **Yearly** button.

4. Click the **Retrieve** button.

5. Select the **Run Check** button.

If the Level 2 Validation results in no errors, the calculated data for each unit can be viewed for each month by pressing either the **Reports** or **Monthly Operation View** buttons.

Figure 5-1: Successful Level 2 Validation Screen
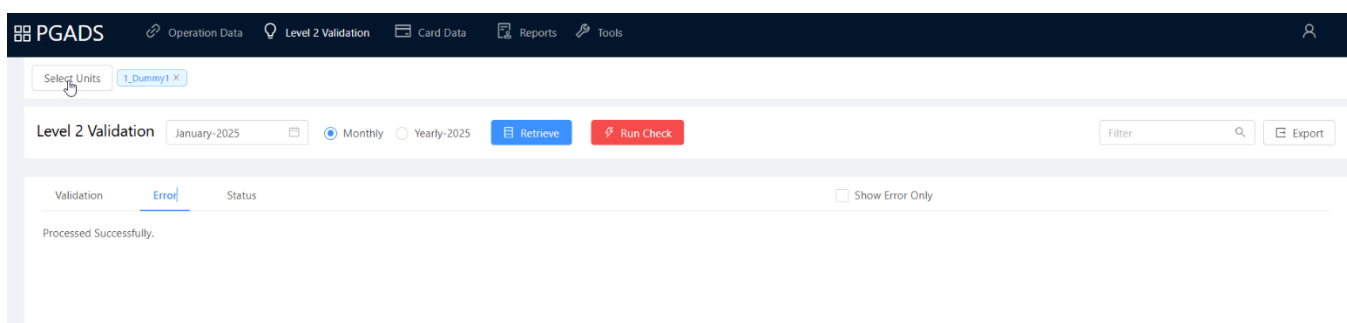
If an error is encountered during the Level 2 Validation, an error log is displayed on the screen. See Figure 2-6 for an example. The error messages are color coded depending on the severity of the error:

- <mark style="background-color:red">Fatal errors</mark> are colored red. When a fatal error is found, statistical data is not generated for the given unit, year and month, which impedes the calculation of EFORd and other metrics. All fatal error messages must be corrected before statistics can be generated.

- <mark style="background-color:yellow">Warnings</mark> are colored yellow. Warnings usually are errors that are imposed by NERC that do not impede the calculation of metrics. Warnings do not impede the generation of statistical data. However, all warnings should eventually be cleared because they could impede the calculation of EFORd and other metrics.

> *Note:* When multiple units are selected to run the Level 2 Validations, statistics are generated for the units that pass the test. Only the units that do not pass the test have to be re-validated.

If errors are identified, the user can resolve the error(s) by:

(1) Correcting the GADS Data offline and re-uploading the YTD data records for those units with identified errors.

(2) If there are only event data errors, the user has the option to upload YTD event data file(s) for only the unit(s) that have errors. Likewise, if there are only performance data errors, the user has the option to upload YTD performance data file(s) for only the unit(s) that have errors.

5.2   Level 2 Validation Status

The Level 2 Validation status screen allows the user to review which units have been validated and which have not. This screen is useful for reviewing the submission status of different units.

> The Level 2 Validation status is reset whenever a modification is made to a period already validated. The user must re-run the Level 2 Validation when a change is made.

To view the Level 2 Validation status:

1. Click the **Select Units** button and select the units to be reviewed.

2. Click the **OK** button.

3. Select the start month/year and the end month/year.

4. Click the **Retrieve** button.

Figure 5-2: Level 2 Validation Status

6. Monthly Operation View

The Monthly Operation View screen presents a monthly view of all the event and performance data uploaded for a selected unit. As shown in Figure 6-1, the lower portion of the screen displays the event data and the upper portion displays the performance data for the currently selected unit and data month.

Here is an overview of the functionality:

Figure 6-1: Monthly Operation Screen Overview
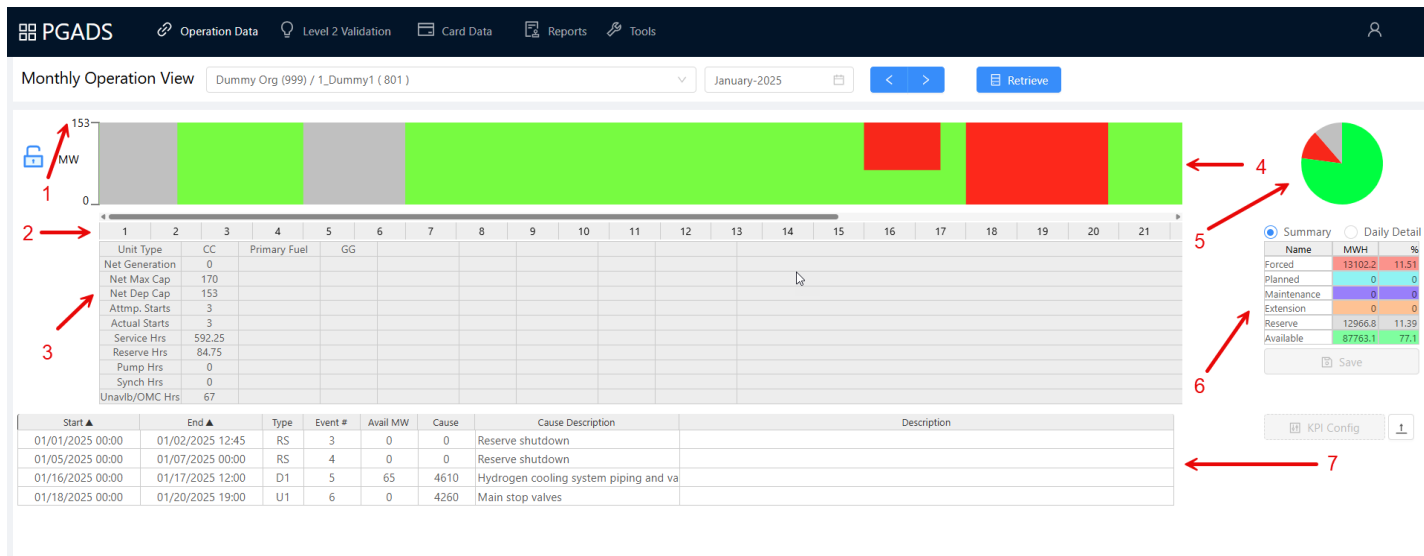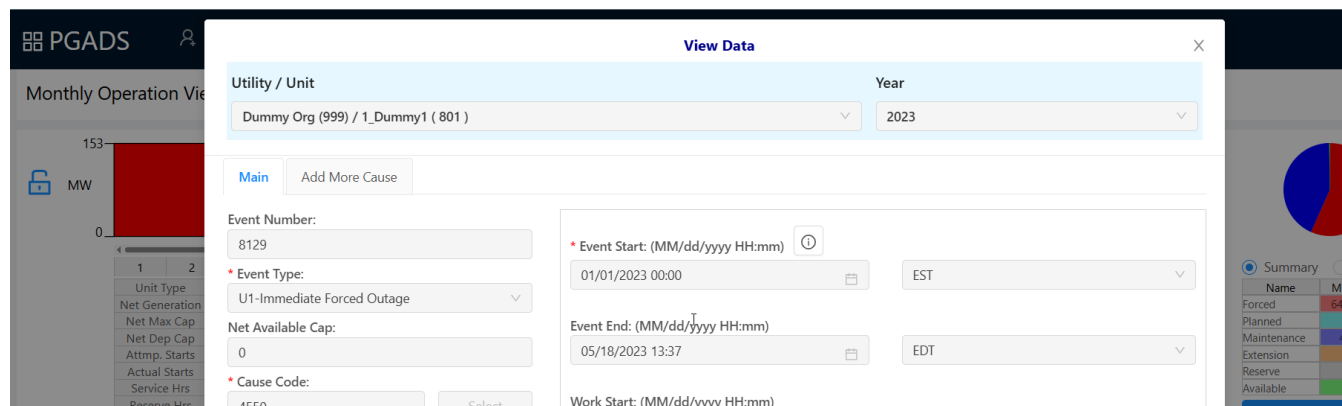
Performance Grid Component Descriptions from Figure 6-1 (left to right)

1. Net Dependable Capacity for the unit
2. Days of the month
3. Performance Grid – Displays performance data for the month.
4. Operation Graph – Displays color coded representations of events and unit available periods for the month.
5. Pie Chart - Displays a summary of all events and available hours.
6. Legend – Identifies the type of event for each color.
7. Event Grid- Displays event data for the month.

6.1   Viewing an Existing Event

To view an existing event, double-click on the specific event in the event list at the bottom of the screen or right-click and choose **View**. The event data screen will open in **View** mode.

Figure 6-1: View Data Screen

7. Reports

The Reports screen enables the user to download reports in PDF format or into CSV files. User may run reports on demand or in the background. Reports that have run in the background may be retrieved from the **Completed Reports** tab.

7.1 Reports

There are four reporting options available to the user: the cause code report, event data report, performance data report, and Average Equivalent Demand Forced Outage Rate ("AEFORd") report.

1. Cause Code Report

   The Cause Code Report generates a summary of events grouped by cause code. Duration Hour, Equivalent Duration Hour, Average Reduction, and Loss MWH are listed per event and totaled by cause code, cause code category, and unit.

   To pull this report:

   1. Select a unit(s)

   2. Select either the **All Cause Code** button or the **Select Cause Code** button to filter the cause codes shown in the report.

   3. Select the start date/hour and the end date/hour or use the preset custom date selection option.

   4. Select whether to include or exclude Outside Management Control ("OMC") cause codes.

   5. Select either a vertical or horizontal format.

   6. In the **Event Type** selection field, either remove unwanted event types or add event types by directly typing into the selection field.

   7. Select either the **Generate Report** button for the report to be generated on demand or select the **Generate Report in Background** button for the report to run in the background.

Figure 7-1: Running a Cause Code Report

Figure 7-2: Cause Code Report Example

2. Event Data Report

The Event Data Report generates a list of all events for a specified time period. Duration Hour, Equivalent Duration Hour, Event Number, Event Index, Event Type, MW Reduction, Available Capacity, Cause Code, and Event Description are listed for each event.

To pull this report:

1. Select a unit(s).

2. Select the start date and the end date or use the preset custom date selection option.

3. Select whether to include or exclude OMC cause codes.

4. Select either the **Generate Report** button for the report to be generated on demand or select the **Generate Report in Background** button for the report to be run in the background.

Figure 7-3: Running an Event Data Report

Report Name :

| EVENT DATA | ⌄ | 🗎 Generate Report | 🗎 Generate Report in Background |

View Type : ● Unit   [Select Unit]

| Start Date : | End Date : | Custom Date Selection : |
| 04/01/2025 📅 | 04/30/2025 📅 | Custom Select ⌄ |

OMC :
● Include
○ Exclude

Figure 7-4: Event Data Report Example

Event Start Date/Time	Event End Date/Time	Event Duration	Eq Hrs	Event Num	Event Index	Event Type	Event Red	Event Cap	Cause Code	Event Description
07/09/02 04:00 PM	07/22/02 04:48 AM	300.80	23.72	36	1	D1	22	257	820	
07/11/02 09:00 PM	07/12/02 07:17 AM	10.28	3.21	33	1	D1	87	170	4499	Fan work
07/12/02 08:30 PM	07/14/02 07:44 AM	35.23	9.85	35	1	D1	78	179	4499	High pressure injection lin
07/12/02 09:15 PM	07/13/02 05:40 PM	20.42	0.00	34	1	D1	0	179	3499	Feedwater heater work
07/22/02 04:48 AM	07/24/02 11:30 PM	66.70		37	1	U1	279	0	1000	Tube leak
07/24/02 11:30 PM	07/25/02 01:17 AM	1.78		40	1	RS	0	0	0	
07/25/02 03:06 AM	07/25/02 07:00 PM	15.90		41	1	RS	0	0	0	
07/25/02 07:00 PM	07/27/02 09:02 PM	50.03		38	1	U1	279	0	1000	Tube leak
07/27/02 09:02 PM	10/11/02 10:00 PM	98.97	7.80	39	1	D1	22	257	1000	Boiler work

3. Performance Report

The Performance Report generates a list of data submitted through Card05.

To pull this report:

1. Select a unit(s).

2. Select the start date and the end date or use the preset custom date selection option.

3. Select whether to include or exclude OMC cause codes.

4. Select either the **Generate Report** button for the report to be generated on demand or select the **Generate Report in Background** button for the report to be run in the background.

Figure 7-5: Running a Performance Report

Report Name :

| EVENT DATA | ⌄ | 🖹 Generate Report | 🖹 Generate Report in Background |

View Type : ⦿ Unit   [Select Unit]

Start Date :   End Date :   Custom Date Selection :

| 04/01/2025 📅 | 04/30/2025 📅 | Custom Select ⌄ |

OMC :
⦿ Include
○ Exclude

Figure 7-6: Performance Data Report

4. AEFORd Report

   The AEFORd Report generates NYISO EFORd metrics that will be used in the Installed Capacity market.

7.2   Completed Reports

The Completed Reports screen allows the user to retrieve reports that were run in the background. To retrieve a report:

1. Select the start month/year and the end month/year when the report was initially run.

2. Click the **Retrieve** button.

3. From the table of Completed Reports click the **Download** button.

Figure 7-7: Completed Reports

Appendix A: GADS Level 1 and 2 Error Messages

Error Code	Error Description
7	The Time Period of the data being saved is outside of the Commission and Retirement Date Range of the unit
8	No Access Right to this unit
9	Records for this period are Locked. Modification is not allowed.
10	Revision Code must be Blank or 0 = Add, D = Delete, R = Replace.
11	Month Entries must be in the range of 1 and 12.
12	Maximum Capacity must be in the range of 0 and 1400 MWHRS.
13	Dependable Capacity must be in the range of 0 and 1400 MWHRS.
14	Max Capacity must be greater than or equal to Dependable Capacity.
15	The Net Dependable Capacity reported is less than the Available Capacity reported in certain event.
18	Nuclear Units can only have a Loading Characteristic of 1.
19	A loading Characteristic of 6 must have a verbal description provided.
20	Attempted Starts cannot be less than 0.
21	Actual Starts cannot be less than 0.
22	Actual Starts cannot be greater than Attempted Starts.
23	Service Hours exceed the total available Period Hours.
24	Hours cannot be negative.
25	If Service and Condensing hours are 0, Actual Starts must also be 0 (except for Hydro Units).
26	Reserve Hours exceed the total available Period Hours.
27	If Reserve Hours are greater than 0, the Loading Characteristic cannot be 1.
28	The record unit type is not allowed to have Pumping Hours.

29	Pumping Hours exceed the total available Period Hours.
30	Only Hydro or CT units are allowed to have Condensing Hours.
31	Synchronous Condensing Hours exceed the total available Period Hours.
32	Sum of Service, Reserve, Pumping, Condensing Hours exceed the Period Hours.
64	The Event Number must be greater than 0.
65	Valid Indexes range from 01 to 48.
66	Event Indexes 02-48 cannot have entries in columns 21-52.
68	Invalid Event Type.
69	Each Event must have Event Type and Cause Code
70	Invalid Date and/or Time.
71	The hour entry must be between 0 and 23.
72	The minute entry must be between 0 and 59.
74	Original event (event with index 1) must have a Start Date.
75	Event must end before another full outage begins.
76	End of the Event is equal or before the start of the event.
77	Event Times cannot occur after today's date.
78	Available capacity must be between 0 and 2000.
79	Event Type is not a derating, Available Capacity must be zero.
80	Valid Cause Codes are greater than or equal to zero.
81	A Reserve Shutdown requires a Cause Code of zero.
82	Invalid Causcode for this event type.
83	Valid Contribution Codes are 1, 2, 3 or 5.

84	Event Index 1 must have a Contribution Code of 1.
85	Contribution Code 1" is invalid after index 1
89	The Year reported must match with the year in Event Start Date.
90	An event cannot be updated to start in a different year. Please delete the old event and insert a new event with the new start date.
91	Available Capacity during an Event exceeds the Maximum Capacity Available during other concurrent events.
102	The cause code is not valid for the given Unit Type.
104	Amp Code 84 means Ongoing Investigation and should be replaced at this stage..
105	The amplification code is invalid.
106	The failure code is invalid.
108	A numeric field was found to have non-numeric entries.
111	The start of DM or DP must equal to the end of a preceeding D4/DM or PD/DP.
112	The start of ME or PE must equal to the end of a preceeding MO/ME or PO/PE
113	Warning, No event found which could be extended by the SF.
114	Available Capacity cannot be greater than the Net Dependable Capacity during the record times.
115	The Cause Code is invalid.
118	PO can only change to PO, MO, RS, PE, SF, U1, D1, D2, D3, D4 or PD.
119	MO can only change to PO, MO, RS, ME, SF, U1, D1, D2, D3, D4 or PD.
120	ME can only change to MO, PO, RS, SF, U1, D1, D2, D3, D4 or PD.
121	SF can only change to PO, MO, RS, SF, U1, D1, D2, D3, D4 or PD.
122	U1 can only change to PO, MO, RS, SF, U1, D1, D2, D3, D4 or PD.
123	U2 / U3 can only change to PO, MO, RS, SF, U1, D1, D2, D3, D4 or PD.

124	RS can only change to PO, MO, RS, SF, U1, D1, D2, D3, D4 or PD.
125	PE can only change to PO, MO, RS, SF, U1, D1, D2, D3, D4 or PD.
126	D1, D2, or D3 cannot change to DM or DP.
137	A character was found in a location that should be blank.
138	Cause Code is not valid for Gas Turbines.
139	Cause code is not valid for jet engines.
140	Data not found in a location that should contain data.
141	No valid unit found for the given utility and unit code.
142	Value larger than specification allows.
143	Value must be integer.
150	The number of Actual Starts being saved is inconsistent with Event Data
152	Available Capacity for Derating Events should be greater than zero.
153	Event types SE and DE have been replaced by ME, PE, DM and DP
154	All other events must end before Inactive Event begins (IR,MB or RU).
157	This event type requires a special Cause Code.
200	Card Code Missing
201	Unable to find the record specified to be deleted
202	Unable to insert new record. A duplicate record already exists in the system.
203	Invalid Format
204	Error creating NERC file
207	Warning! Cannot find data to export
208	Please be reminded to execute a level 2 check for the unit and months affected by this update.

214	This program only accepts NERC Card 05 and Card 07 format.
215	Cause Codes between 9180 and 9199 are reserved for internal company use only.
216	Cause Codes between 9180 and 9199 can only be used as primary cause of an event.
2001	Monthly Performance Record is missing (Card 95).
2003	The Number of Attempted Starts, less the Number of Successful Starts does not equal the Number of Start Failure Events.
2004	Available Hrs + Unavailable Hrs + Inactive Hrs must equal to the Period Hrs.
2005	The Number of Reserve Shutdown Hours in Card 95 does not equal the Total Duration of RS Events reported in Card 97.
2011	Warning. No Event data reported for the year.
2013	The unit is in full outage for the entire month but the available hours are not zero.
2014	Warning. This event has a blank End Date.
2015	Two or more Events overlap illegally.
2018	Available Capacity during an Event exceeds the Maximum Capacity Available during other concurrent events.
2019	Net Gen must be less than or equal to 110% of (Service Hour * (Net Dep. Capacity + 1)) (Note: CT=130%; Hydro=150%)
2020	If Service Hours are greater than zero, the Net Actual Generation usually is positive.
2021	Cause Code is invalid for this unit type.
2022	Start Failure Outage does not coincide with the End Date of any previous Event or Reserve Shutdown.
2024	Start Time of Event coincides illegally with the End Time of another Event.
2027	The cause code of an extension must match the cause code of the matching preceeding event.
2028	Extension must coincide with a matching preceeding outage (PE to PO/PE, ME to MO/ME, etc.).
2030	The available capacity on a derate must not exceed the Net Dep Cap of the month when it started.

2031	The available capacity on a derating exceeds the Net Dependable Capacity during a month into which the derating extends.
2033	Generation MWH may be missing.
2034	Service hour cannot be zero when net generation is positive.
2037	Net generation data is missing for this month.
2040	There is no MW reduction in this derate event.
2041	Cause Codes between 9180 and 9199 are cause codes reserved for internal use only.
2044	The Pandemic cause code (9015) should only be used by Forced Outage or Forced Derate event

Note: Appendix A is obtained directly from the PowerGADS website.

Appendix B: NYISO GADS Administrator Contact Information

Contact: GADS Administrator

Team: ICAP Markets – Capacity Accreditation

Email: GADS_Info@nyiso.com