



## **Guide 17**

# **Generator Fuel and Emissions Reporting User's Guide**

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## Revision History

Version	Date	Revisions
1.0	11/06/2015	Initial Release
2.0	09/22/2017	Recertification and Template Update
3.0	6/27/2019	CRF_001035_GFER Annual and Weekly Survey Updates

## Relation of this Guide to NYISO's Tariffs and Agreements

To the extent that information in this Generator Fuel and Emissions Reporting User Guide is inconsistent with the NYISO's tariffs or agreements, the NYISO's tariffs and agreements shall control. This guide is intended solely for informational purposes and is subject to change.

Capitalized terms used in this guide shall have the meanings established in this guide and shall neither define nor prescribe a party's rights or obligations under the NYISO's tariffs or agreements.

# 1. Introduction

## 1.1. What is the Generator Fuel and Emissions Reporting?

The Generator Fuel and Emissions Reporting (GFER) is the platform used by Market Participants to submit the fuel and emissions information. It will give the NYISO more visibility into fuel and emissions availability and limitations of the NY generation fleet.

The GFER system allows users to exchange fuel and emissions related data with the NYISO using either of the following two methods:

1. Through a web browser based user interface which allows the user to enter information and submit the information to the NYISO using the web browser.
2. Through an API allowing users to develop their own custom applications which can be used to automate the data submission process.

## 1.2. Digital Certificates

All users must have a valid digital certificate installed on their computer in order to access the FASR application.

For information related to the installation and usage of digital certificates please see section 4.4 of the *Market Participants User Guide* (MPUG) available from the NYISO Web site at the following URL:

[http://www.nyiso.com/public/markets\\_operations/documents/manuals\\_guides/index.jsp](http://www.nyiso.com/public/markets_operations/documents/manuals_guides/index.jsp)

## 1.3. Market Participants Administrative Tasks

In order to access the GFER application users will need to be assigned the necessary user privileges and assigned to the required generators. The MIS administrator for an organization will need to update their user's configuration as noted below in sections [1.3.1](#) and [1.3.2](#) in order to allow the user to access the GFER application and submit data for a generator.

### 1.3.1. User Privileges

In order to submit fuel and emissions information, the Market Participant Administrator will need to assign users the new privilege "GFER - Report Generator Fuel and Emissions". To assign this privilege the administrator should select the User Details option and then the Add Privilege option displayed on the screen.

For additional information on assigning user privileges see section 7.2 of the *Market Participants User Guide* (MPUG).

### **1.3.2. Assigning a Generator to a User**

In order to submit fuel and emission information for a given generator the user must be authorized for the generator. To authorize a user to a generator the Market Participant Administrator should select on the screen the User Details option then the Generators tab at the bottom of the screen. This will present the administrator with a list of any generators currently assigned to the user and options for adding or deleting any generator assignments. For additional information on assigning generators to a user see section 7.2 of the *Market Participants User Guide* (MPUG.)

## **1.4. Support**

### **1.4.1. Contacting NYISO Stakeholder Services**

Stakeholder Services help desk is available to address any GFER inquiries:

8:00 a.m. until 5:00 p.m., Monday through Friday

Phone: 518-356-6060

E-mail: [stakeholder\\_services@nyiso.com](mailto:stakeholder_services@nyiso.com)

Fax: 518-356-6146

The Help Desk telephone will be answered 24-hours-a-day to address urgent, real-time issues, such as problems with access to GFER.

### **1.4.2. Establishing Fuel Reporting Groups**

Generators desiring to report fuel and emissions data using a fuel group should contact NYISO Stakeholder Services to inquire as to the possibility of establishing a fuel reporting group.

## 2. Submitting and Retrieving The Weekly Survey Using the API

In addition to entering and retrieving fuel and emissions information through the web based GFER user interface, Market Participants have the capability to submit and retrieve this data using Application Program Interface (API). This method of data exchange allows users to more quickly and efficiently exchange large amounts of information and configure their own customized applications to manage fuel and emission data.

This section of the user guide provides details on each of the functions that can be executed using the API procedures. There is a template detailing the data exchanged in each request.

### 2.1. API Overview

The basics of interacting with REST-based JSON APIs are outside the scope of this document. Readers should be familiar with the general mechanics prior to continuing through this section. For all operations, the API exchanges data using the JSON format (Media Type: “application/json”). In the event that the submission by the user fails any validations steps, the user will be presented with an error. The Annual Survey is not supported by the API at this time, and must be completed through the main Generator Reporting application.

#### 2.1.1. Operations

The API allows you to perform the following two operations:

- Submission of weekly survey—see section [2.3](#)
- Retrieval of most recent survey submission —see section [2.4](#)

#### 2.1.2. Authentication

The API requires users to authenticate using their MIS credentials.

The API utilizes the Basic Authentication Scheme. Therefore, all requests to the API must include your credentials in the appropriate HTTP Header. For more information on the Basic Authentication Scheme, please refer to the following link:

<http://tools.ietf.org/html/rfc2617#section-2>

### 2.2. Survey Representation

The Weekly Survey is represented in the API as a series of questions. Each question in the Survey has a unique “API Key”.

Responding to the Survey through the API requires submitting a series of name/value pairs, one for each question. The API Key is the name, and your answer becomes the value.

Ex: {"STAFF\_ON\_HAND\_24\_7": "Y"} would indicate that your unit responded "Yes" to the question: "Do you have staff on Hand at Generation site 24/7?"

For additional information on the weekly survey API Keys and field definitions see section [2.5](#)

### 2.3. Submission of Weekly Survey

The API allows for the automated submission of weekly surveys. For each single Generator or Fuel Group, a separate survey must be submitted. It is not possible to submit a single survey response for all of your authorized generators.

**Figure 1: Submission of Weekly Survey**

URL	HTTP Method	Request Format	Response Format
<a href="https://genreporting.nyiso.com/api/survey/weekly">https://genreporting.nyiso.com/api/survey/weekly</a>	POST	Survey Request Format	Survey Request Format

#### 2.3.1. Survey Request Format

The following information must be provided for each submission of the weekly survey:

**Figure 2: Survey Request Format**

Field Name	Parameter Name	Data Format
Generator / Fuel Group PTID  The PTID of the Generator or group of Generators that have the same source of fuel (usually non gas)	unit: { ptid: ***** }	Numeric
Operating Day Operating day is the Gas operating day.	operatingDay	Data type : string Format: "mm/dd/yyyy"
Survey Answers	answers	Object containing name-value pairs. Each name-value pair corresponds to an answer to a single question in the survey. Each answer must be

		represented as a String, regardless of actual data representation.
--	--	--

### 2.3.1.1. Sample Request

**Figure 3: Sample Request**

```

{
  "operatingDay": "05/20/2015",
  "unit": {
    "ptid": 1234
  },
  "answers":{
    "STAFF_ON_HAND_24_7": "N",
    "GASNOM_CONVERTED_TO_MWH": "12",
    "ALGONQUIN_NOMINATION": "1",
    "ALGONQUIN": "Y",
    "ALGONQUIN_CONTRACT_TYPE": "Primary",
    "NON_GAS_FUEL_CAPABILITY": "N",
    "FUELED_BY_NATURAL_GAS": "Y",
    "SUFFICIENT_GAS_TO_MEET_DAM_SCH": "Y"
  }
}

```

### 2.3.1.2. Survey Response Format

The following information will be provided as a response to each submission of the weekly survey:

**Figure 4: Survey Response Format**

Field	Parameter Name	Data Format
Generator / Fuel Group PTID: GEN_PTID is the PTID associated with the generator. The FUEL_GRP ID is an ID associated with a group of generators that have been grouped for the purpose of reporting fuel and emissions information as a single entity.	<pre> unit: {   ptid: ***** } </pre>	Numeric

Operating Day: Operating day is the Gas operating day.	operatingDay	Data type : string Format: "mm/dd/yyyy"
Survey Answers	answers	Object containing name-value pairs. Each name-value pair corresponds to an answer to a single question in the survey.
Response Date – the timestamp the survey submission was recorded	responseDate	Data type: string Format: "mm/dd/yyyy hh24:mm z"
Submission Errors	errors	Object containing name-value pairs. Each name-value pair corresponds to a collection of errors for a single question in the survey.

#### 2.3.1.3. Sample Response (valid submission):

**Figure 5: Sample Response (Valid Submission)**

```

200 OK

{
  "operatingDay": "05/20/2015",
  "responseDate": "05/19/2015 12:56 EDT",
  "unit": {
    "ptid": 1234
  },
  "answers":{
    "STAFF_ON_HAND_24_7": "N",
    "GASNOM_CONVERTED_TO_MWH": "12",
    "ALGONQUIN_NOMINATION": "1",
    "ALGONQUIN": "Y",
    "ALGONQUIN_CONTRACT_TYPE": "Primary",
    "NON_GAS_FUEL_CAPABILITY": "N",
    "FUELED_BY_NATURAL_GAS": "Y",
    "SUFFICIENT_GAS_TO_MEET_DAM_SCH": "Y"
  }
}

```

#### 2.3.1.4. Sample Response (invalid submission):

In the event that the Survey submission does not pass all validations, a response will be returned with HTTP status 400, and the corresponding set of errors.

**Figure 6: Sample Response (Invalid Submission)**

```

400 BAD REQUEST

{
  "operatingDay": "05/20/2015",
  "responseDate": "05/19/2015 12:56 EDT",
  "unit": {
    "ptid": 1234
  },
  "answers":{
    "STAFF_ON_HAND_24_7": "A",
    "GASNOM_CONVERTED_TO_MWH": "12",
    "ALGONQUIN": "Y",
    "ALGONQUIN_CONTRACT_TYPE": "Primary",
    "NON_GAS_FUEL_CAPABILITY": "N",
    "FUELED_BY_NATURAL_GAS": "Y",
    "SUFFICIENT_GAS_TO_MEET_DAM_SCH": "Y"
  },
  "errors": {
    "STAFF_ON_HAND_24_7": ["STAFF_ON_HAND_24_7 must be 'Y' or 'N'."],
    "ALGONQUIN_NOMINATION": ["Nomination is required when corresponding Pipeline is
selected."]
  }
}

```

**2.3.1.5. Other Error Conditions**

If your request is malformed, or there is an unexpected system error, the following response will be returned:

**Figure 7: Other Error Conditions**

```

500 SERVER ERROR

{
  "errorMessage": "error message text here"
}

```

**2.4. Retrieve the latest survey submission**

The API allows for the automated retrieval of the previous weekly survey submissions. Only the latest submission for each Generator/Fuel Group may be retrieved.

**Figure 8: Retrieve the Latest Survey Submission**

URL	HTTP Method	Response Format
<a href="https://genreporting.nyiso.com/api/survey/weekly/response/{ptid}">https://genreporting.nyiso.com/api/survey/weekly/response/{ptid}</a>	GET	Survey Request Format

#### 2.4.1. Request Format

There is no body to this request. The only value needed is the PTID of the Generator/Fuel Group, which is provided as part of the URL.

Example:

To retrieve the latest response for a Generator with a PTID of 1234, you would issue a request to the following URL:

<https://genreporting.nyiso.com/api/survey/weekly/response/1234>

The format of the response is the same as what would be returned when submitting the survey.

## 2.5. Weekly Survey Field Definitions

**Figure 9: Weekly Survey Field Definitions**

Question Text	Parameter	Data Type	Description & Special Processing (where applicable)	Possible Values
3rd party gas purchaser or fuel manager	THIRDPARTY_GAS_FUEL_MGR	CHAR (100)	This field can be null but cannot be more than 100 Char if provided	
Do you have staff on hand at generation site 24/7?	STAFF_ON_HAND_24_7	CHAR(1)	This is a mandatory field.	'Y' or 'N'
Does plant have natural gas fuel capability?	FUELED_BY_NATURAL_GAS	CHAR(1)	This is a mandatory field. If Fueled by Natural Gas is 'N' all the fields in the Fueled by Natural Gas <b>Error! Reference source not found.</b> section have to be null.	'Y' or 'N'
Gas Pipeline Algonquin	ALGONQUIN	CHAR(1)	The pipeline must be 'Y' if there is nomination on it, otherwise it should be null.	'Y' or null
Gas Nomination Contract Type for Algonquin	ALGONQUIN_CONTRACT_TYPE	CHAR(13)	The contract type has to be Firm or Best Efforts if Pipeline is 'Y', otherwise it has to be null.	Firm or Best Efforts
Gas Nomination Delivery Point for Algonquin	ALGONQUIN_DELIVERY_POINT	CHAR(100)	Delivery point Is not mandatory. It can be null even if Pipeline is 'Y'. It must be null if pipeline is null.	'Y' or null
Gas Nomination for Algonquin	ALGONQUIN_NOMINATION	NUM(9)	Pipeline nomination cannot be null if Pipeline is 'Y'. The unit of measurement for the nomination is Dekatherms.	
Gas Pipeline Columbia	COLUMBIA	CHAR(1)	The pipeline must be 'Y' if there is nomination on it, otherwise it should be null.	
Gas Nomination Contract Type for Columbia	COLUMBIA_CONTRACT_TYPE	CHAR(13)	The contract type has to be Firm or Best Efforts if Pipeline is 'Y', otherwise it has to be null.	Firm or Best Efforts
Gas Nomination Delivery Point for Columbia	COLUMBIA_DELIVERY_POINT	CHAR(100)	Delivery point Is not mandatory. It can be null even if Pipeline is 'Y'. It must be null if pipeline is null.	

Question Text	Parameter	Data Type	Description & Special Processing (where applicable)	Possible Values
Gas Nomination for Columbia	COLUMBIA_NOMINATION	NUM(9)	Nomination cannot be null if Pipeline is 'Y'. The unit of measurement is Dekatherms.	
Gas Pipeline Dominion	DOMINION	CHAR(1)	The pipeline must be 'Y' if there is nomination on it, otherwise it should be null.	
Gas Nomination Contract Type for Dominion	DOMINION_CONTRACT_TYPE	CHAR(13)	The contract type has to be Firm or Best Efforts if Pipeline is 'Y', otherwise it has to be null.	Firm or Best Efforts
Gas Nomination Delivery Point for Dominion	DOMINION_DELIVERY_POINT	CHAR(100)	Delivery point Is not mandatory. It can be null even if Pipeline is 'Y'. It must be null if pipeline is null.	
Gas Nomination for Dominion	DOMINION_NOMINATION	NUM(9)	Nomination cannot be null if Pipeline is 'Y'. The unit of measurement is Dekatherms.	
Gas Pipeline Empire	EMPIRE	CHAR(1)	The pipeline must be 'Y' if there is nomination on it, otherwise it should be null.	
Gas Nomination Contract Type for Empire	EMPIRE_CONTRACT_TYPE	CHAR(13)	The contract type has to be Firm or Best Efforts if Pipeline is 'Y', otherwise it has to be null.	Firm or Best Efforts
Gas Nomination Delivery Point for Empire	EMPIRE_DELIVERY_POINT	CHAR(100)	Delivery point Is not mandatory. It can be null even if Pipeline is 'Y'. It must be null if pipeline is null.	
Gas Nomination for Empire	EMPIRE_NOMINATION	NUM(9)	Nomination cannot be null if Pipeline is 'Y'. The unit of measurement is Dekatherms.	
Gas Pipeline Millennium	MILLENNIUM	CHAR(1)	The pipeline must be 'Y' if there is nomination on it, otherwise it should be null.	
Gas Nomination Contract Type for Millennium	MILLENNIUM_CONTRACT_TYPE	CHAR(13)	The contract type has to be Firm or Best Efforts if Pipeline is 'Y', otherwise it has to be null.	Firm or Best Efforts
Gas Nomination Delivery Point for Millennium	MILLENNIUM_DELIVERY_POINT	CHAR(100)	Delivery point Is not mandatory. It can be null even if Pipeline is 'Y'. It must be null if pipeline is null.	
Gas Nomination for Millennium	MILLENNIUM_NOMINATION	NUM(9)	Nomination cannot be null if Pipeline is 'Y'. The unit of measurement is Dekatherms.	

Question Text	Parameter	Data Type	Description & Special Processing (where applicable)	Possible Values
Gas Pipeline National Fuel	NATIONALFUEL	CHAR(1)	The pipeline must be 'Y' if there is nomination on it, otherwise it should be null.	
Gas Nomination Contract Type for National Fuel	NATIONALFUEL_CONTRACT_TYPE	CHAR(13)	The contract type has to be Firm or Best Efforts if Pipeline is 'Y', otherwise it has to be null.	Firm or Best Efforts
Gas Nomination Delivery Point for National Fuel	NATIONALFUEL_DELIVERY_POINT	CHAR(100)	Delivery point Is not mandatory. It can be null even if Pipeline is 'Y'. It must be null if pipeline is null.	
Gas Nomination for National Fuel	NATIONALFUEL_NOMINATION	NUM(9)	Nomination cannot be null if Pipeline is 'Y'. The unit of measurement is Dekatherms.	
Gas Pipeline Tennessee	TENNESSEE	CHAR(1)	The pipeline must be 'Y' if there is nomination on it, otherwise it should be null.	
Gas Nomination Contract Type for Tennessee	TENNESSEE_CONTRACT_TYPE	CHAR(13)	The contract type has to be Firm or Best Efforts if Pipeline is 'Y', otherwise it has to be null.	Firm or Best Efforts
Gas Nomination Delivery Point for Tennessee	TENNESSEE_DELIVERY_POINT	CHAR(100)	Delivery point Is not mandatory. It can be null even if Pipeline is 'Y'. It must be null if pipeline is null.	
Gas Nomination for Tennessee	TENNESSEE_NOMINATION	NUM(9)	Nomination cannot be null if Pipeline is 'Y'. The unit of measurement is Dekatherms.	
Gas Pipeline Texas Eastern	TEXASEASTERN	CHAR(1)	The pipeline must be 'Y' if there is nomination on it, otherwise it should be null.	
Gas Nomination Contract Type for Texas Eastern	TEXASEASTERN_CONTRACT_TYPE	CHAR(13)	The contract type has to be Firm or Best Efforts if Pipeline is 'Y', otherwise it has to be null.	Firm or Best Efforts
Gas Nomination Delivery Point for Texas Eastern	TEXASEASTERN_DELIVERY_POINT	CHAR(100)	Delivery point Is not mandatory. It can be null even if Pipeline is 'Y'. It must be null if pipeline is null.	
Gas Nomination for Texas Eastern	TEXASEASTERN_NOMINATION	NUM(9)	Nomination cannot be null if Pipeline is 'Y'. The unit of measurement is Dekatherms.	

Question Text	Parameter	Data Type	Description & Special Processing (where applicable)	Possible Values
Gas Pipeline Transco	TRANSCO	CHAR(1)	The pipeline must be 'Y' if there is nomination on it, otherwise it should be null.	
Gas Nomination Contract Type for Transco	TRANSCO_CONTRACT_TYPE	CHAR(13)	The contract type has to be Firm or Best Efforts if Pipeline is 'Y', otherwise it has to be null.	Firm or Best Efforts
Gas Nomination Delivery Point for Transco	TRANSCO_DELIVERY_POINT	CHAR(100)	Delivery point Is not mandatory. It can be null even if Pipeline is 'Y'. It must be null if pipeline is null.	
Gas Nomination for Transco	TRANSCO_NOMINATION	NUM(9)	Nomination cannot be null if Pipeline is 'Y'. The unit of measurement is Dekatherms.	
Gas Pipeline Iroquois	IROQUOIS	CHAR(1)	The pipeline must be 'Y' if there is nomination on it, otherwise it should be null.	
Gas Nomination Contract Type for Iroquois	IROQUOIS_CONTRACT_TYPE	CHAR(13)	The contract type has to be Firm or Best Efforts if Pipeline is 'Y', otherwise it has to be null.	Firm or Best Efforts
Gas Nomination Delivery Point for Iroquois	IROQUOIS_DELIVERY_POINT	CHAR(100)	Delivery point Is not mandatory. It can be null even if Pipeline is 'Y'. It must be null if pipeline is null.	
Gas Nomination for Iroquois	IROQUOIS_NOMINATION	NUM(9)	Nomination cannot be null if Pipeline is 'Y'. The unit of measurement is Dekatherms.	
Total Gas Nomination Converted to MWh	GASNOM_CONVERTED_TO_MWH	NUM(9)	Gas nomination converted to MWh has to be provided if the Fueled by Natural gas is answered 'Y'.	
Do you have sufficient gas scheduled to meet DAM schedule?	SUFFICIENT_GAS_TO_MEET_DAM_SCH	CHAR(20)	Sufficient gas to meet DAM schedule has to be provided if the Fueled by Natural gas is answered 'Y'. It has to be 'Y', 'N' or 'Pending DAM Schedule'.	
Does plant have non-natural gas fuel capability?	NON_GAS_FUEL_CAPABILITY	CHAR(1)	This is a mandatory field. It cannot be null and has to be 'Y' or 'N'. If Non Gas Fuel capability is 'N' all fields in the Non Gas Fuel Capability section have to be null.	

Question Text	Parameter	Data Type	Description & Special Processing (where applicable)	Possible Values
Primary Non-Gas Fuel Type	PRIMARY_NONGAS_FUEL_TYPE	CHAR(20)	Primary Non Gas Fuel Type must be one of the following:  #2 Oil, 'ULSD', '#6 Oil', 'Kero', 'ULSK', 'Butane', 'Coal', 'Uranium', 'Water' or 'Other'	
Date/Time of Current Fuel Inventory	DATETIME_CURRENT_FUEL_INVENTORY	DATE	The date- time must be in MM/DD/YYYY HH:MM format and the time submitted has to be less than the current time.	
Current Usable Fuel Level	CURRENT_USABLE_FUEL_LEVEL	NUM(9)	Current Useable Fuel level has to be specified if Non Gas Capability is 'Y' and the fuel is one of the following:  #2 Oil, 'ULSD', '#6 Oil', 'Kero', 'ULSK', 'Butane', 'Coal'.	
Usable Fuel Converted to MWh	CURRENT_USABLE_FUEL_IN_MWH	NUM(9)	Current Useable Fuel in MWh has to be specified if Non Gas Capability is 'Y'	
How much inventory was received since your last fuel survey (MWh)?	WEEK_INV_MWH	NUM(7)	Not mandatory. Format: Must be Numeric, positive, max of 7 digits, no decimal.	
Hours of operation at full load of all shared units	HRS_OF_OP_AT_FULL_LOAD_ALL_SHARED_UNITS	NUM(9)	Hours of Operation at full load is the single value reported for fuel group or individual gen not part of fuel group	
Fuel Delivery Method	FUEL_DELIVERY_METHOD	CHAR(20)	Fuel delivery method has to be one of the following:  'Barge', 'Truck', 'Rail' or 'Other'	
Fuel under guaranteed delivery contract?	FUEL_GUARANTEED_DELIVERY_CONTRACT	CHAR(1)	This is a mandatory field if the Non Gas Fuel Capability is answered 'Y'. Must be answered 'Y' or 'N'.	
Fuel on order?	FUEL_ON_ORDER	CHAR(1)	This is a mandatory field if the Non Gas Fuel Capability is answered 'Y'. Must be answered 'Y' or 'N'.	

Question Text	Parameter	Data Type	Description & Special Processing (where applicable)	Possible Values
Amount of fuel on order?	AMOUNT_OF_FUEL_ON_ORDER	NUM(9)	Amount of fuel on order cannot be null if Fuel on order is 'Y'. It's a single value reported for fuel group or individual gen not part of fuel group	
Date fuel last ordered?	DATE_FUEL_LAST_ORDERED	DATE	Date fuel last ordered cannot be null if Fuel on order is 'Y'. It has to be null if Fuel on Order is 'N'. The date must be in MM/DD/YYYY format and the time submitted has to be less than or equal to the current day.	
Expected Delivery Date/Time?	EXPECTED_DELIVERY_DATE_TIME	DATE	Expected Delivery Date Time cannot be null if Fuel on order is 'Y'. It has to be null if Fuel on Order is 'N'. The date must be in MM/DD/YYYY format and the time submitted has to be greater than the current day.	
Is it likely fuel delivery will arrive on scheduled date?	FUEL_DELIVERY_LIKELY_TO_ARRIVE_ON_TIME	CHAR(1)	Fuel delivery likely to arrive on time cannot be null if Fuel on Order is 'Y'. It must be null if Fuel on order is 'N'.	'Y' or 'N'
Can fuel be replenished faster than consumed at full load?	FUEL_REPLENISHABLE_FASTER_THAN_CONSUMED_AT_FULL_LOAD	CHAR(1)	Fuel replenishable faster than consumed at full load cannot be null if Fuel on order is 'Y'. It has to be null if Fuel on Order is 'N'.	'Y' or 'N'
If required, can you meet your entire DAM schedule without natural gas?	MEET_ENTIRE_DAM_SCH_WITHOUT_NATURAL_GAS	CHAR(20)		'Y', 'N' or 'Pending DAM Schedule'
Are there any other restrictions on MWh output?	MWH_OUTPUT_RESTRICTION_OTHER	CHAR(1)	If there is restrictions on MWH due to any reason other than Reduced head, Environmental reasons or Emissions.	'Y'
Are there any other restrictions on MWh output?	MWH_OUTPUT_RESTRICTION_REDUCED_HEAD	CHAR(1)	If there is restrictions on MWH due to Reduced head.	'Y'
Are there any other restrictions on MWh output?	MWH_OUTPUT_RESTRICTION_ENVIRONMENTAL	CHAR(1)	If there is restrictions on MWH due Environmental reasons	'Y'
Are there any other restrictions on MWh output?	MWH_OUTPUT_RESTRICTION_EMISSIONS	CHAR(1)	If there is restrictions on MWH due to Emissions.	'Y'
Please explain (Optional)	RESTRICTION_EXPLANATION	CHAR(500)	User may use explanation independent of selecting Reduced head, Environmental reasons or Emissions.	