

Master File User Interface User Guide

Version 1.5

January 28, 2015

Location of Document

<http://www.caiso.com/2388/2388dd27280b0.html>

Revision History

Date	Version	Description	Author
06/26/2009	1.3	First Released Version.	Project
08/28/2009	1.4	Production URLs now available. Updated reporting instructions to show possible error conditions. Added note to U.I. error display on upload.	Project
01/22/2015	1.5	Added new sections for Data Upload, Actions, Rates and Notifications	Project

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1. Introduction

The Master File database contains static data that reflects the operating characteristics of resources that participate in California ISO Markets. Periodically, Scheduling Coordinators may need to make changes to specific operating parameters and may do so by submitting their data changes via a Generator Resource Data Template (GRDT or RDT) or Intertie Resource Data Template (IRDT or RDT). This user guide explains how to use the Master File User Interface for submitting these data changes, viewing and downloading approved RDT data for a selected effective trade date, and viewing and downloading a list of resources with upcoming approved changes for specified date range.

1.1 Purpose

The purpose of the Master File database is to hold static reference data that is used by many key market applications that operate at the California ISO.

1.2 Scope

This manual provides instructions for using the basic Master File User Interface features, which include the following topics:

- Accessing the application
- Navigating through the web content and controls
- Generating and saving reports

The details of how to utilize the Master File Application Programming Interface (Web Services) are documented in the Technical Interface Specification for Master File Data Exchange Services.

1.3 Content and Organization

1. The purpose of the guide is to instruct users how to use the features of the Master File User Interface.
2. This guide describes the steps for submitting (uploading) RDT data updates using two Excel templates: the GRDT or IRDT.
3. This guide describes the steps for viewing and downloading data in GRDT and IRDT Excel formats. This application may be used to generate the following reports:
 - a. **Generator RDT Report** – data for GEN, TG, LOAD resources in a format used currently to exchange resource data between CAISO and Scheduling Coordinators. It also allows users to view/download data which SIBR/IFM/SaMC use to perform validations.
 - b. **Intertie RDT Report** – data for ITIE, ETIE resources in a format used currently to exchange resource data between the CAISO and Scheduling Coordinators. It also allows users to view/download data which SIBR/IFM/SaMC use to perform validations.
 - c. **Resources with Approved Changes** – list of resource IDs that have approved changes for a specified effective trade date, or range of effective trade dates.
4. This guide describes the steps for viewing the status of an uploaded RDT request.

1.4 Definitions

The following defined terms and acronyms are used within this document:

Object	Definition
Approved	A submitted data change must be approved by ISO staff before it can be considered effective. Approved data changes will be included in the featured reports beginning the calendar day following the day the change is approved by ISO staff.
Effective Date	The first trading date an approved data change becomes applicable.
SCID	A unique identifier for a market participant that is certified by the ISO to submit bids and preferred self-schedules.
Resource Type	Descriptive identifier denoting the type of resource. Different types of resources may have additional validation requirements. Resource type can be one of the following: a) GEN: Generating Resource b) TG: Dynamic Tie Generator Resource c) LOAD: Load Resource d) ETIE: Export System (Intertie) Resource e) ITIE: Import System (Intertie) Resource
Resource Id	The ISO resource identifier used for tracking each resource for market scheduling and outage coordination purposes.
Trade Date	The effective date for which the report retrieves the data from Master File
IRR	ISO Reliability Requirements

2. Installation

2.1 System Requirements

Hardware

There is no specific limitation on the Hard Disk Drive or the RAM capacity however, a minimum of 512 Mb of RAM is advised for better performance.

Software

- Windows XP or Windows NT 2000 and above
- Internet explorer 6.0 with service pack 2 is recommended
- Microsoft Office 2000 or higher is recommended

Lower versions of the software components may result in some of the user features not looking the same and some features may be totally unavailable.

2.2 Application Access

Please refer to [Appendix A – External User Access](#) for external user access information.

URL information is located in section 3.1 (Using the System).

2.3 Client Side Setup Procedure

Use this procedure to configure the Microsoft Explorer to open Office files in the appropriate Office program by using the Folder Options tool. These steps are performed in order to allow the Actuate Reporting Tool to open Excel files in a separate window, which enhances its usability:

1. Open **My Computer**.
2. On the **Tools** menu, click **Folder Options**.
3. Click the **File Types** tab.
4. In the **Registered file types** list, click the specific Office document type (select Microsoft Excel Worksheets .xls, .csv), and then click **Advanced** (or click **Edit**).
5. In the **Edit File Type** dialog box, click to clear the **Browse in same window** check box (or click to clear the **Open Web documents in place** check box).
6. Click **OK**.

3. Using the System

3.1 Accessing the Application

1. Click on the URL for the application:

Master File Production Environment

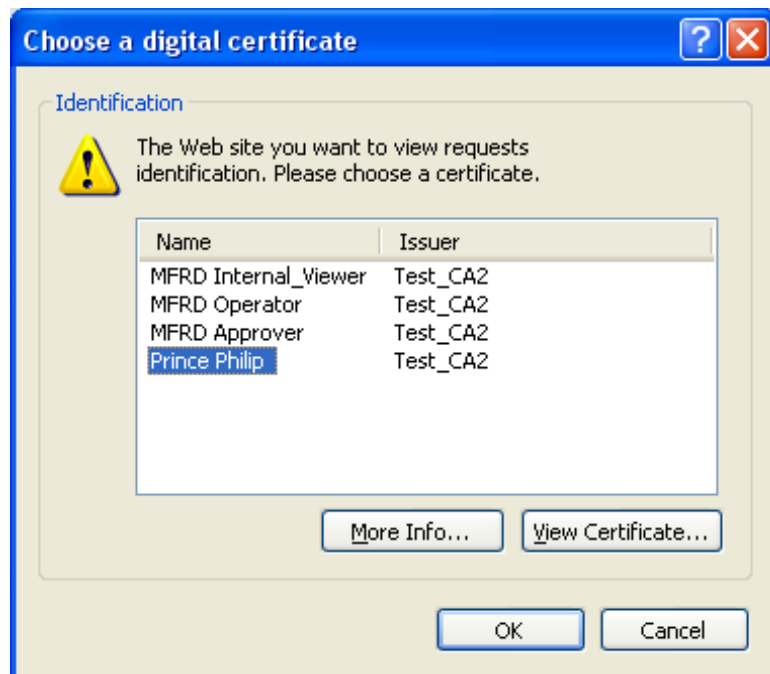
[CAISO Portal](#)

Select



Please refer to the [Master File Production URL List](#) to start Master File

2. A pop-up window appears with the list of available installed certificates displayed. Select the Digital Certificate with which the request is to be authenticated and click on OK.



3. *Figure 1: Login Dialog - Certificate* For the next pop-up window, accept the request to sign data with the Private Exchange Key of the certificate by clicking on the OK button. This screen should only appear the first time accessing the application.



Figure 2: Login Dialog– Access

4. The Master File Home Page will display as shown below

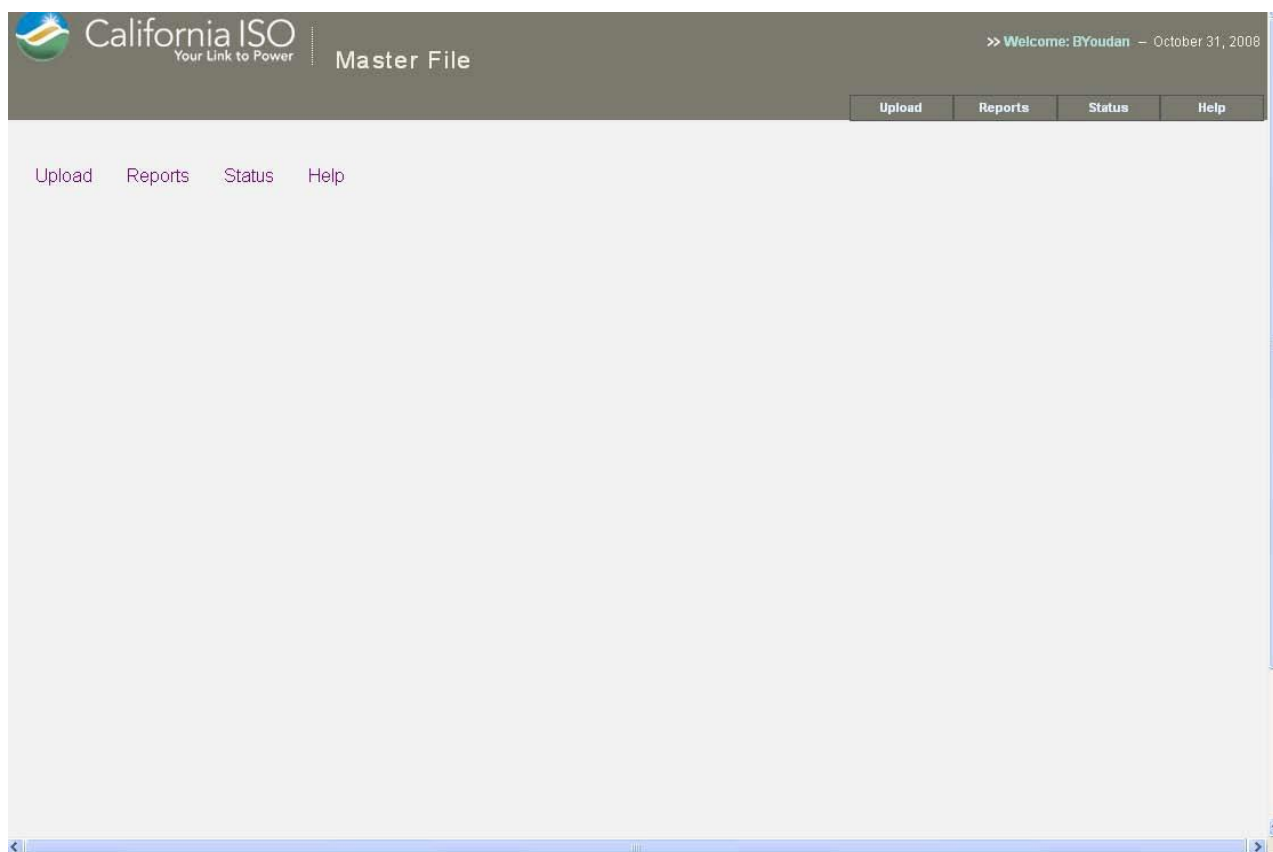


Figure 3: Master File Home Page

5. The available functionality includes:

- a. [Upload of RDT data](#)
- b. [Status of Submission](#)
- c. [Reports](#)
- d. [Help](#)

6. Role to Function Matrix

Function/Role	External Operator	External Viewer
Upload RDT Data	✓	
RDT Submission Status	✓	
Reports (Download)	✓	✓
Help	✓	✓

4. Upload of RDT data

4.1 Submission of Upload Request

1. Click the “Upload” button from the home page.
2. The system displays the “Upload Page”.

The screenshot shows the 'RDT Upload' page within the 'Master File' application. The header includes the California ISO logo, the text 'Your Link to Power', and a welcome message: '>> Welcome: BYoudan - October 28, 2008'. Navigation tabs for 'Upload', 'Reports', 'Status', and 'Help' are visible. The main form area is titled 'RDT Upload' and contains the following fields:

- File Name:** A text input field with a 'Browse...' button next to it.
- RDT Type:** Radio buttons for 'Generator' (selected) and 'Intertie'.
- Effective Date:** A text input field showing '11/04/2008' with a calendar icon to its right.
- SC ID:** A dropdown menu.
- Comments:** A large text area.
- Upload:** A button at the bottom of the form.

Figure 4: RDT Upload Page

3. Interact with the following elements on the upload screen:
 - a. **File Name** – Must be an .xls file in RDT format. The “Browse” button will allow for file selection from any local or network drive that user is hooked up to. This field is required.
 - b. **RDT Type** – Defaults to “Generator”. Be sure to select “Generator” if a GRDT is being submitted, and “Intertie” if an IRDT is being submitted. A GRDT can contain Generator, TG, and Load resource IDs, and an IRDT can contain only Intertie resource IDs. This field is required.
 - c. **Effective Date** – Defaults to today plus five business days. The date should be five or more business days from the current date. Business days exclude weekends and CAISO holidays. If the five business day rule is broken, an error message will be displayed. Type in a date, or use the calendar popup to select an appropriate date. Only valid dates will be accepted. This field is required.

- d. **SC ID** – A list of SC IDs will be displayed which is based on the valid SC IDs in the Security Certificate for the User who has logged on.. Only one SC ID may be selected per batch submission. All data contained in the file must be associated to the specified SC ID. This field is required.
 - e. **Comments** – This field allows you to send comments to the CAISO Business Unit that pertain to the file being submitted. The comment field is optional.
 - f. **Upload button** – Select the Upload button to submit the file for processing. When Upload is selected, the system will perform basic structural validation on the RDT file. It will verify that the file is in the correct format (based on the RDT Type selected), and valid data types are presented (such as numbers in a numeric field and values based on a list of valid values).
4. If no errors are found with the submission, the following screen will appear. Note that there is a message between the header block and “RDT Upload” title which indicates that the upload request was successful. The Batch Id associated with this RDT Upload is provided. The Batch Id is needed for following the progress of this request.

The screenshot shows the California ISO Master File interface. At the top, the logo and text "California ISO Your Link to Power" are on the left, and "Master File" is in the center. On the right, it says ">> Welcome: BYoudan - October 31, 2008". Below the header, there are four buttons: "Upload", "Reports", "Status", and "Help". A message in the center states: "• RDT file was successfully uploaded; Batch Id = 9192". Below this, the "RDT Upload" section contains a form with the following fields: "File Name" with a "Browse..." button, "RDT Type" with radio buttons for "Generator" and "Intertie" (the latter is selected), "Effective Date" with a date picker showing "11/07/2008", "SC ID" with a dropdown menu showing "SC9C", and a "Comments" text area containing the text "This comment will be seen by the CAISO MCI business group". An "Upload" button is located at the bottom of the form.

Figure 5: RDT Successfully Uploaded for Submission

5. If an error is found upon Upload, a list of the errors will display on the screen as shown in **Figure 6: Upload Error Display**. Note: once leaving this screen, the errors won't be available again, a new upload request will need to be made.

California ISO
Your Link to Power

Master File

Welcome: BYoudan — October 28, 2008

Upload Reports Status Help

• Errors encountered trying to process RDT; see errors below

RDT Upload

File Name Browse...

RDT Type ☐ Generator ☒ Intertie

Effective Date

SC ID

Comments




Upload

RDT Processing Errors for file: BAD_Intertie_RDT_v2.xls			
Sheet Name	Resource Id	Cell Location	Error Message
Intertie Resource	TEST_MARKET01_E_F_DA0_TEST_MARKET01_E_F_DA0	A3	Resource Id > 32 characters
Intertie Resource	TEST_MARKET01_E_F_DA0_TEST_MARKET01_E_F_DA0	B3	Energy Type needs to be 'FIRM', 'NFRM', 'WHL', or 'UCTG'
Intertie Resource	TEST_MARKET01_E_F_DA0_TEST_MARKET01_E_F_DA0	C3	Minimum Hourly Block Limit needs to be a valid number
Intertie Resource	TEST_MARKET01_E_F_DA0_TEST_MARKET01_E_F_DA0	F3	Certified for A/S Non Spin RTM needs to be 'Y' or 'N'
Intertie Resource	TEST_MARKET01_E_F_DA0_TEST_MARKET01_E_F_DA0	G3	Spinning Reserve Cap needs to be a valid number
Intertie Resource	TEST_MARKET01_E_F_DA0_TEST_MARKET01_E_F_DA0	I3	Certified for RUC needs to be 'Y' or 'N'
Intertie Resource	TEST_MARKET01_E_F_DA0_TEST_MARKET01_E_F_DA0	N3	Wheeling Reference Number > 32 characters
Intertie Resource	TEST_MARKET01_E_F_DA2	B4	Energy Type needs to be 'FIRM', 'NFRM', 'WHL', or 'UCTG'
Intertie Resource	TEST_MARKET01_E_F_DA2	C4	Minimum Hourly Block Limit needs to be a valid number
Intertie Resource	TEST_MARKET01_E_F_DA2	D4	Certified for A/S: Spin needs to be 'Y' or 'N'

Display all errors

Figure 6: Upload Error Display

- Status Bar** – Overall message; indicates whether the upload was successful or not.
- Table of errors** – indicates the file name that was used in the upload.
 - Sheet Name – Indicates the worksheet in the Excel file where the error occurred.
 - Resource Id - Identifies which resource had a problem.
 - Cell Location – The cell name in the spreadsheet. This will allow you to navigate directly to the piece of information that has the problem.
 - Error Message – The message that indicates the nature of the problem. A list of all possible messages is in [Appendix C](#) in this document.
- Navigational buttons** – Allows for moving between multiple pages of errors: (left to right):
 - First – Navigates to the first page of errors
 - Fast Reverse – Navigates 2 pages back from the current page
 - Previous – Navigates to the previous page of errors

- iv. Numbers – Navigates directly to a page
 - v.  Next – Navigates to next page of errors
 - vi.  Fast Forward – Navigates 2 pages forward from the current page
 - vii.  Last – Navigates to the last page of errors
- d. **Display All Errors** – This link will take you to a page that looks like the example below and will contain a list of all errors rather than a page at a time. The output columns have the same specification as the partial list specified in step 5 above.

RDT Processing Errors for file: BAD_Intertie_RDT_v2.xls			
Sheet Name	Resource Id	Cell Location	Error Message
Intertie Resource	TEST_MARKET01_E_F_DAO_TEST_MARKET01_E_F_DAO	A3	Resource Id > 32 characters
Intertie Resource	TEST_MARKET01_E_F_DAO_TEST_MARKET01_E_F_DAO	B3	Energy Type needs to be 'FIRM', 'NFRM', 'WHL', or 'UCTG'
Intertie Resource	TEST_MARKET01_E_F_DAO_TEST_MARKET01_E_F_DAO	C3	Minimum Hourly Block Limit needs to be a valid number
Intertie Resource	TEST_MARKET01_E_F_DAO_TEST_MARKET01_E_F_DAO	F3	Certified for A/S Non Spin RTM needs to be 'Y' or 'N'
Intertie Resource	TEST_MARKET01_E_F_DAO_TEST_MARKET01_E_F_DAO	G3	Spinning Reserve Cap needs to be a valid number
Intertie Resource	TEST_MARKET01_E_F_DAO_TEST_MARKET01_E_F_DAO	I3	Certified for RUC needs to be 'Y' or 'N'
Intertie Resource	TEST_MARKET01_E_F_DAO_TEST_MARKET01_E_F_DAO	N3	Wheeling Reference Number > 32 characters
Intertie Resource	TEST_MARKET01_E_F_DAO_TEST_MARKET01_E_F_DAO	B4	Energy Type needs to be 'FIRM', 'NFRM', 'WHL', or 'UCTG'
Intertie Resource	TEST_MARKET01_E_F_DAO	C4	Minimum Hourly Block Limit needs to be a valid number
Intertie Resource	TEST_MARKET01_E_F_DAO	D4	Certified for A/S: Spin needs to be 'Y' or 'N'
Intertie Resource	TEST_MARKET01_E_F_DAO	F4	Certified for A/S Non Spin RTM needs to be 'Y' or 'N'
Intertie Resource	TEST_MARKET01_E_F_DAO	G4	Spinning Reserve Cap needs to be a valid number
Intertie Resource	TEST_MARKET01_E_F_DAO	H4	Non-Spinning Reserve Cap needs to be a valid number
Intertie Resource	TEST_MARKET01_E_F_DAO	I4	Certified for RUC needs to be 'Y' or 'N'

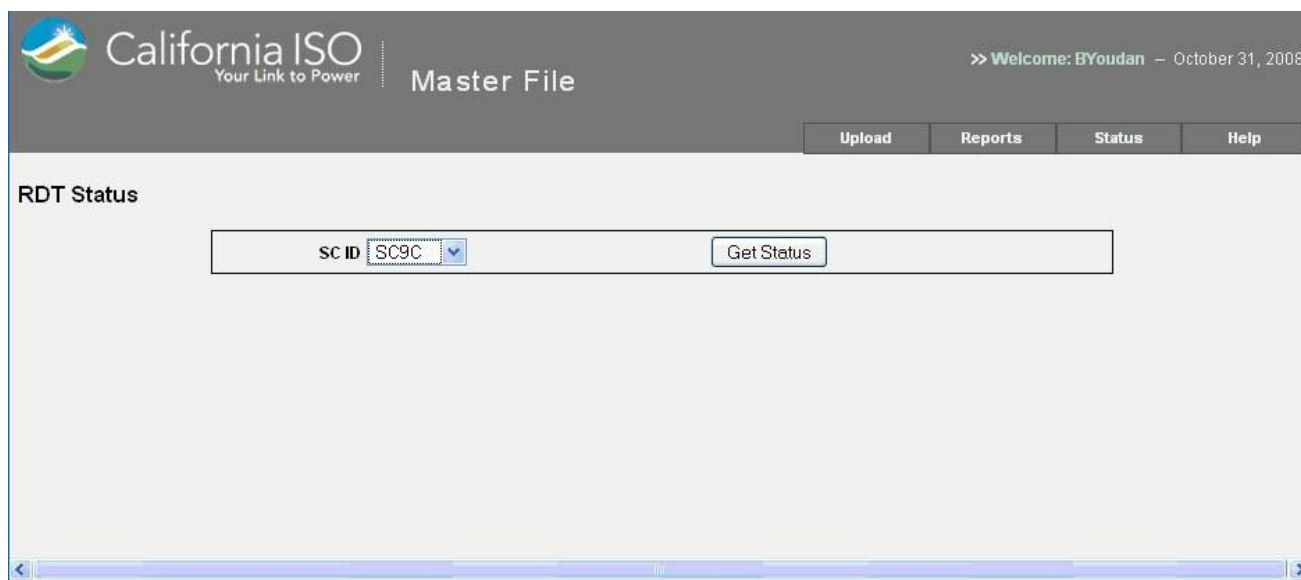
Figure 7: Display All Upload Errors

5. Status of Submission

5.1 Request Status Information

Purpose: This allows you to see the status of batches that have been submitted by a particular SC ID. Only one SC ID may be selected at a time.

1. Click on the “Status” button on the header block.
2. The system responds by showing the “RDT Status” screen.



The screenshot displays the 'RDT Status' interface within the California ISO Master File. The top header includes the California ISO logo and the text 'Your Link to Power' and 'Master File'. A navigation bar with buttons for 'Upload', 'Reports', 'Status', and 'Help' is present, with 'Status' being the active tab. The main content area is titled 'RDT Status' and contains a form with an 'SC ID' dropdown menu set to 'SC9C' and a 'Get Status' button.

Figure 8: Status Submission Search Criteria

3. Select or type in the field labeled “SC ID”. The drop down will only include valid SC IDs based on the security set up in their certificates.
4. Select the “Get Status” button to initiate the system search for RDT Status.
5. The system returns a screen that will look like the example below and contains a list of Batch Submissions for the specified SC ID.

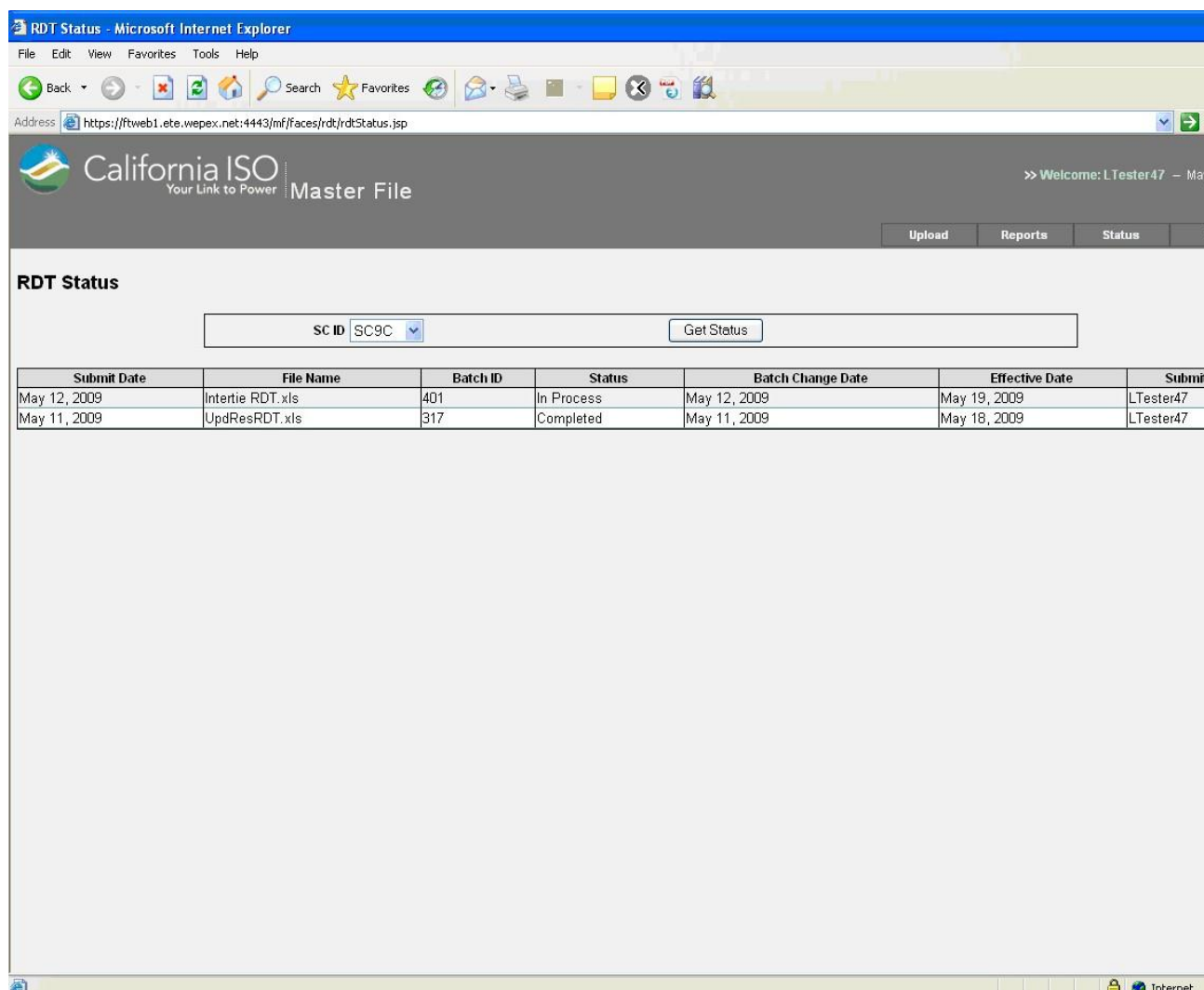


Figure 9: RDT Submission Status Display

6. The RDT Status screen contains the following data:
- Submit Date** – The date the batch was submitted.
 - File Name** – The name of the input file (RDT). This will be an .XLS file when submitted by the UI and an .XML file when submitted by the API.
 - Batch ID** – This is the system-generated unique identifier associated to the Batch.
 - Status** – Displays the current status of the batch. The possible values are as follows:
 - Request to Load** – The XLS file has been uploaded, and your file is in the queue for automated validation.
 - In Process** – Your file is currently being validated in the automated validation process.
 - Submitted** – The automated validation is complete, there were no validation errors, and your changes are ready for review and approval by the ISO.
 - Validation Error** – The automated validation found errors in your file. You will receive an email notification from ISO staff that includes the details of the errors.

- v. **Approved** – Your changes have been approved by the ISO Approver and will be implemented on the requested effective date. Please note, approved changes will not be visible in the RDT reports or in the Resources with Approved Changes report until the day after batch status changes to Approved.
 - vi. **Declined** – Your changes have been declined by the ISO Approver. You will receive an email notification that includes the details.
 - e. **Batch Change Date** – The date the last change occurred to the batch.
 - f. **Effective Date** – The date that the change will become effective
 - g. **Submitter** – The name of who submitted the change.
7. Each column in the display can be used to sort the results. This is accomplished by clicking on the title of the column to be sorted. An arrow will show which direction (ascending or descending) the data will be sorted. If clicked a second time, the system will sort the data the opposite direction.

6. Reports

1. The Master File Actuate application opens in the Internet Explorer window with the default screen displayed below. The default folder selected is your Personal Folder. The left navigation pane displays the folders to which you have access.

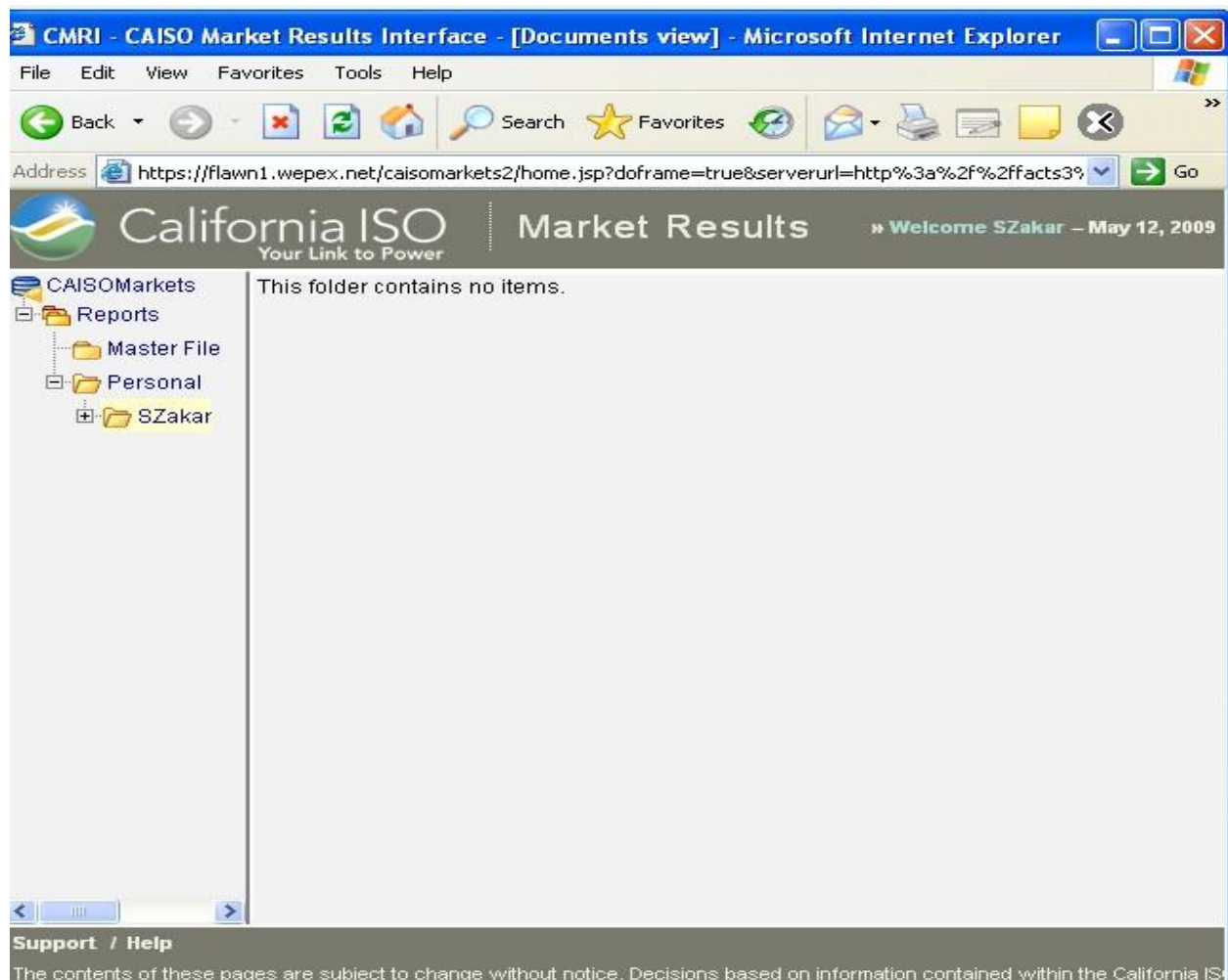


Figure 10: Main Page – Default Folder

Note: The top right hand corner of the screen displays the name of the user that has logged in and the current date.

6.1 Generating the Reports

1. Select the 'Master File' folder on the left navigation pane. This displays the list of reports that you have access to.

The following reports are available for view and download:

- **Generator RDT Report** – data for GEN, TG, LOAD resources in the format used to exchange resource data between the ISO and Scheduling Coordinators.
- **Intertie RDT Report** – data for Intertie resources (ITIE or ETIE) in the format used to exchange resource data between the ISO and Scheduling Coordinators.
- **Resources with Approved Changes** – see Section 6.3.

2. Select the report to generate by clicking on the link for the relevant report, in the right navigation pane under "Reports You Can Run". (e.g. Generator RDT)

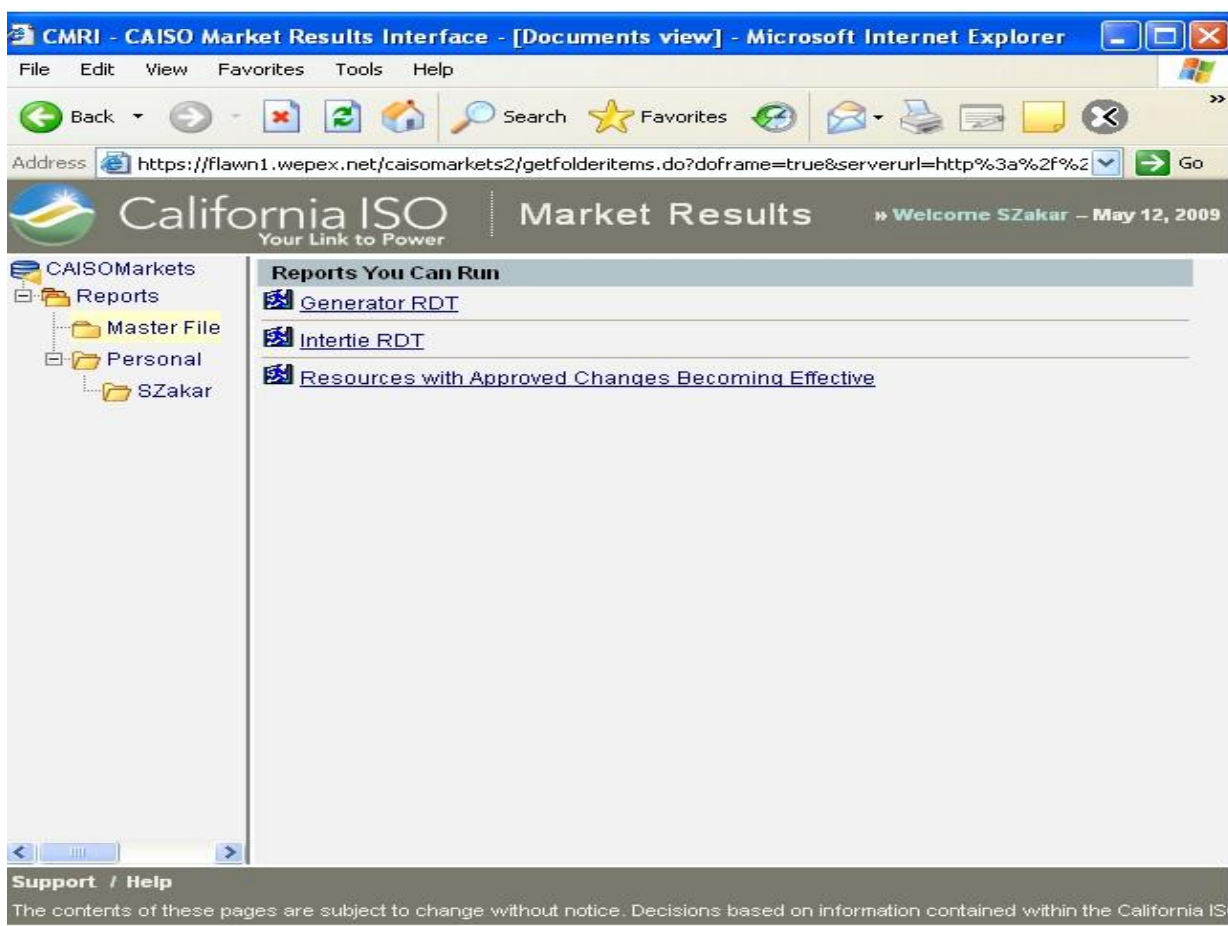


Figure 11: Master File Folder

3. The screen refreshes to display the report parameters specific to the report, in the right navigation pane.

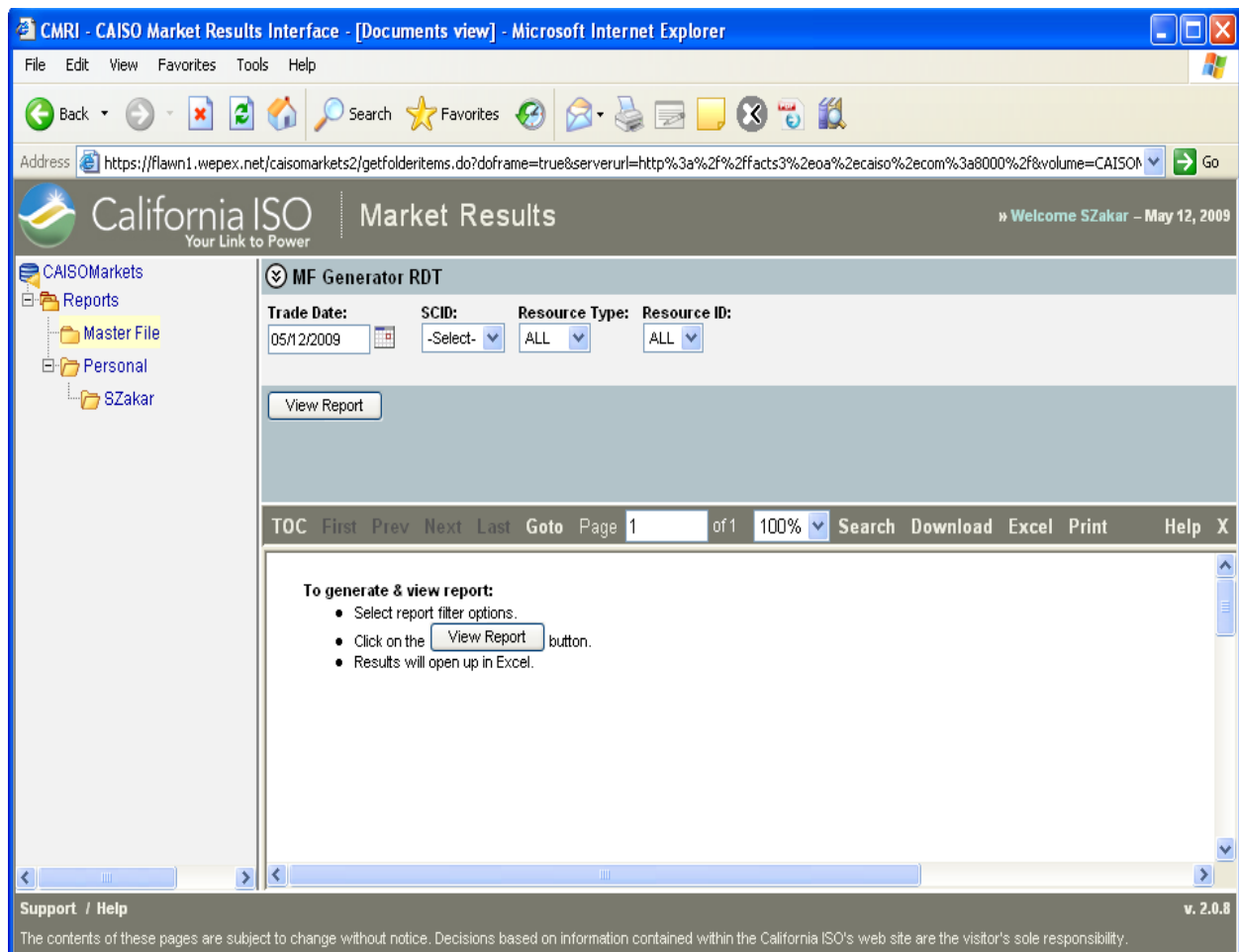


Figure 12: Report Screen

4. Type in the Trade Date for which the report is to be generated, or you may use the calendar box by clicking on the calendar icon next to the Trade Date field and selecting the required date from the calendar box. Today's date is displayed by default.

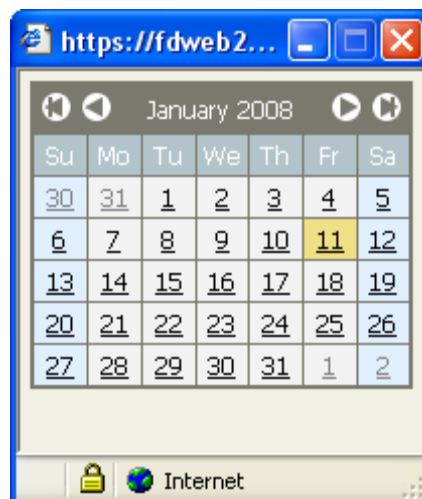


Figure 13: Calendar Box

5. Select the SCID from the drop down list of available SC IDs that have associated resources for the selected Trade Date.

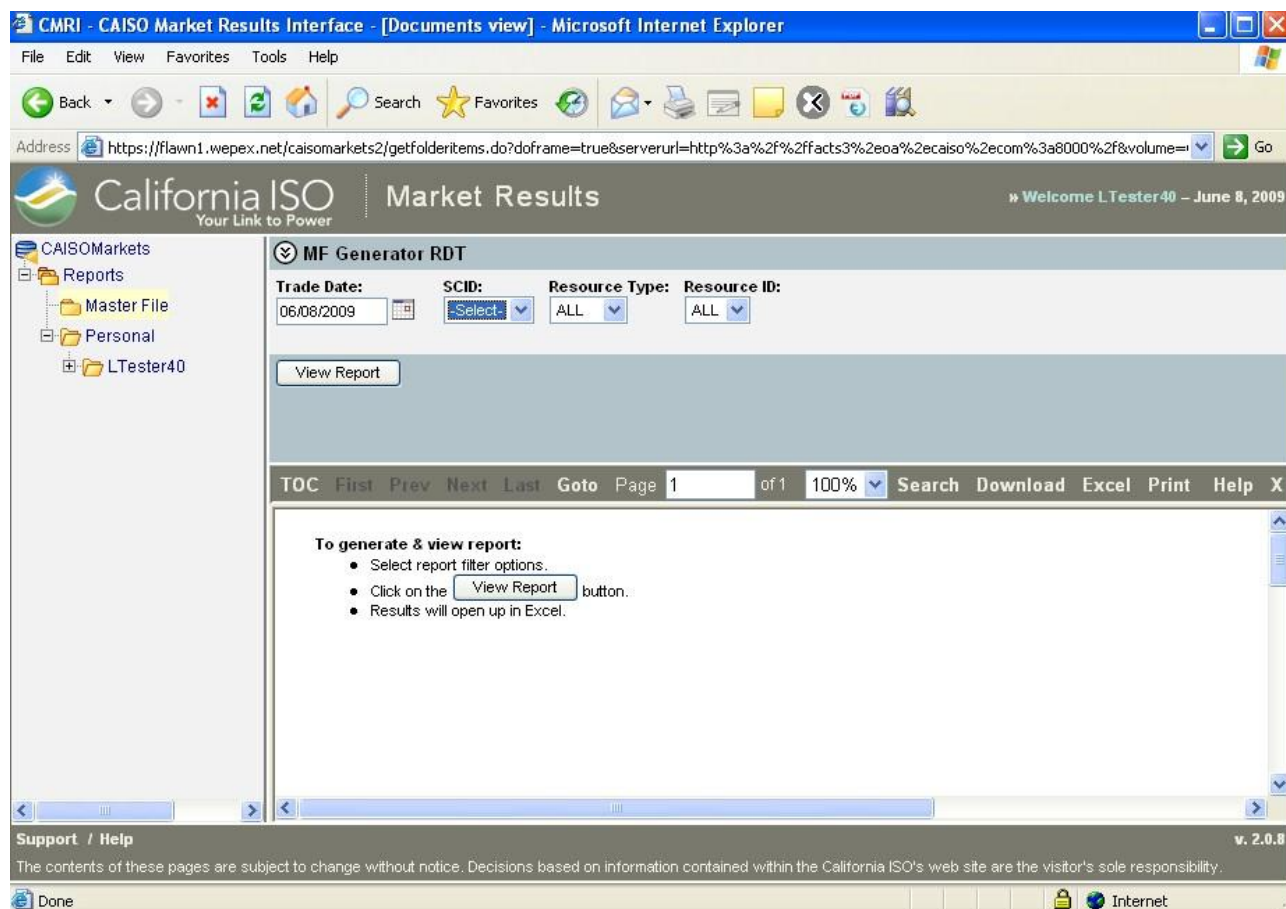


Figure 14: SCID List

Note: The Resource Type and Resource ID lists default to 'ALL'.

6. Select the Resource Type to generate the report. (e.g. GEN)

The available options are:

- **Generator RDT Report** – ALL, GEN, TG, LOAD
- **Intertie RDT Report** – ALL, ETIE, ITIE

Selecting the 'ALL' option for Resource Type will result in the report including information for all the listed resource types for each RDT report as listed above, if it exists. Or you can select any one of the applicable resource types from the list to generate the report for a single resource type.

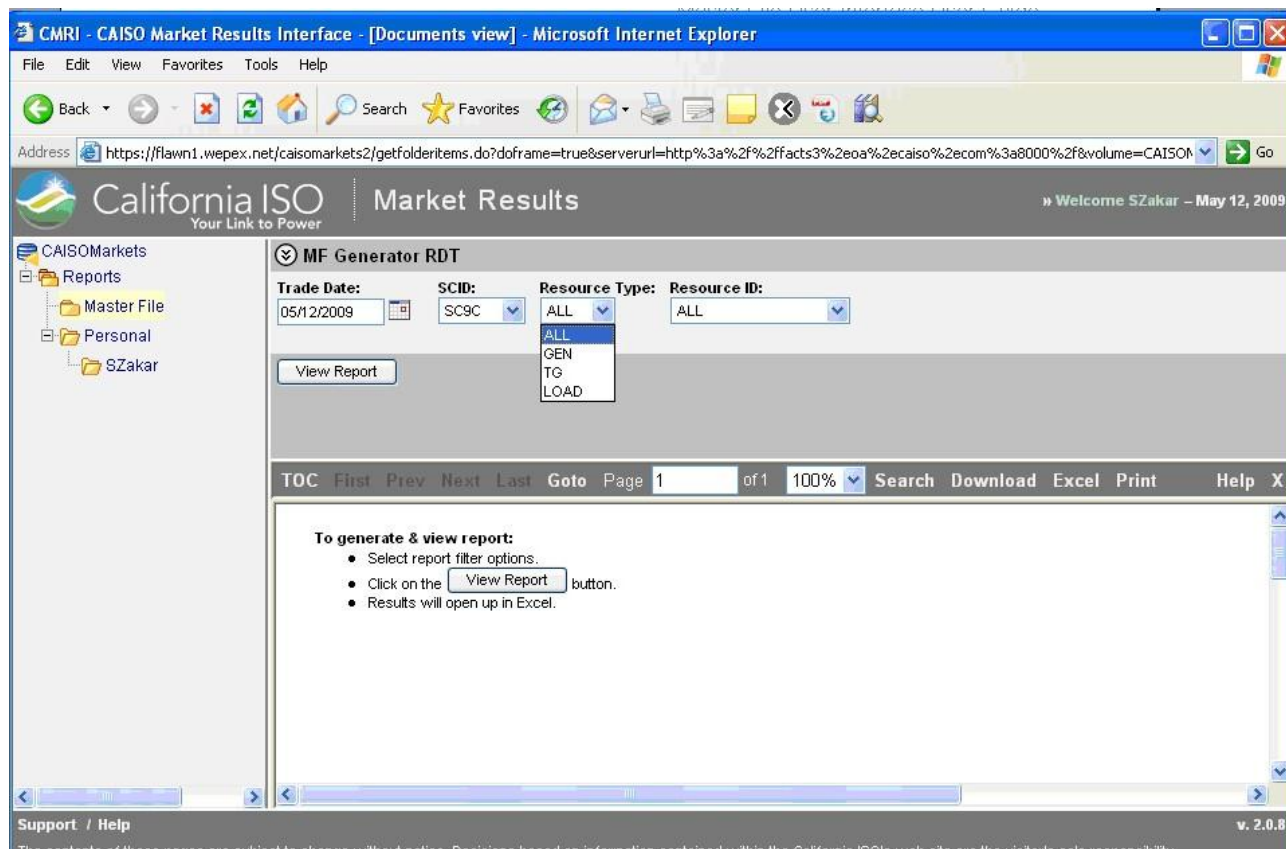


Figure 15: Resource Type List

7. Once Resource Type is selected, the Resource ID list is refreshed with all the resources of the selected Resource Type to which the SC ID is associated.
 - Select 'ALL' from the drop down list to generate an RDT including all the Resource IDs of the selected Resource Type.
 - Select a single Resource ID to generate an RDT for just that Resource
 - Note: Reports can only be run for 'ALL' resources or one specific resource at a time. The reports do not allow for multiple Resource ID selections.

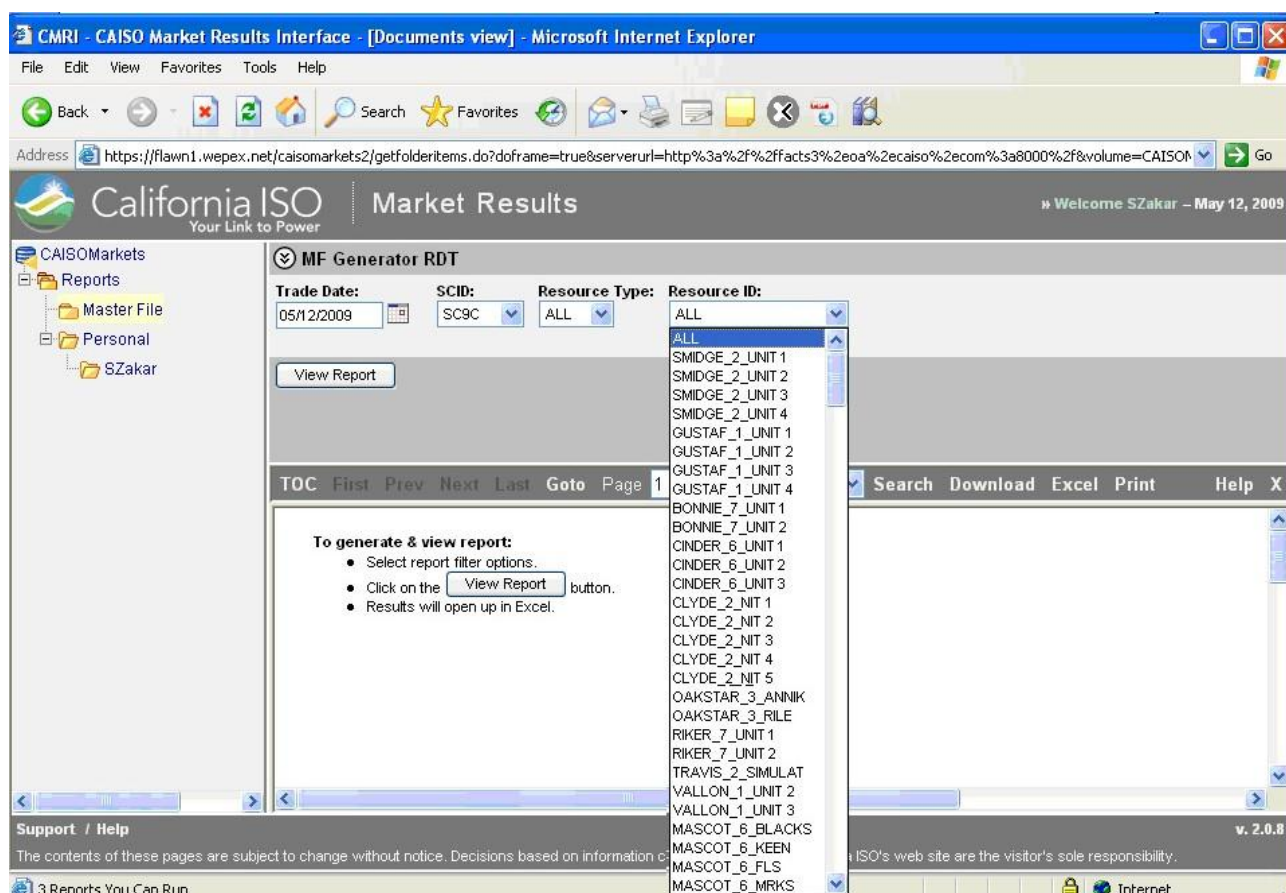


Figure 16: Resource Id List

8. Click on the 'View Report' button to generate the report.

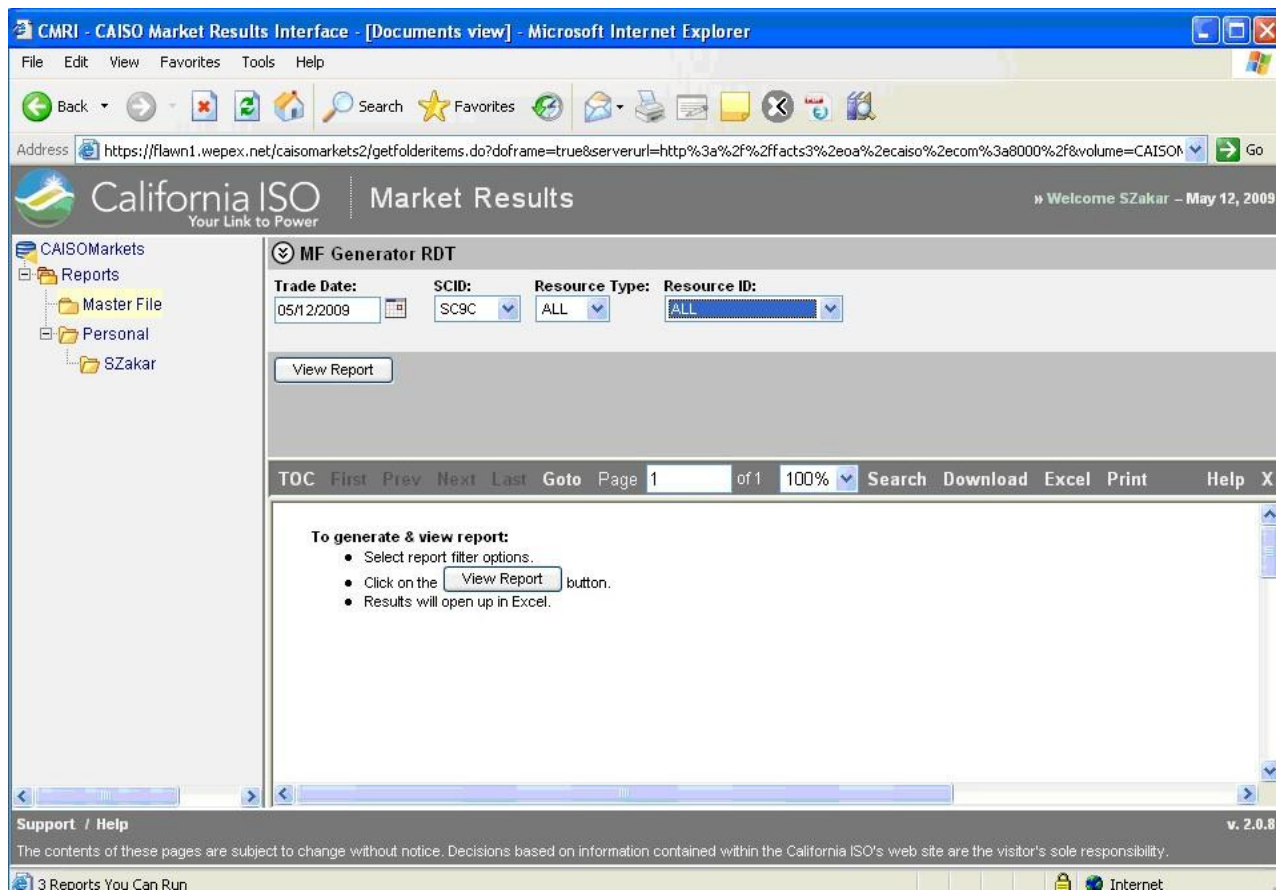


Figure 17: View Report

6.2 Download and Viewing the Reports

1. Upon clicking the 'View Report' button, the application processes the request in the background and displays the file download window, with options to 'Open', 'Save' or 'Cancel'.
 - Click on 'Open' to view the report directly – Go to step 4 for further instructions for viewing the report directly.
 - Click on 'Save' to download the report prior to viewing it. – Go to step 2 for further instructions on downloading the report.
 - Click on 'Cancel' to terminate the request.

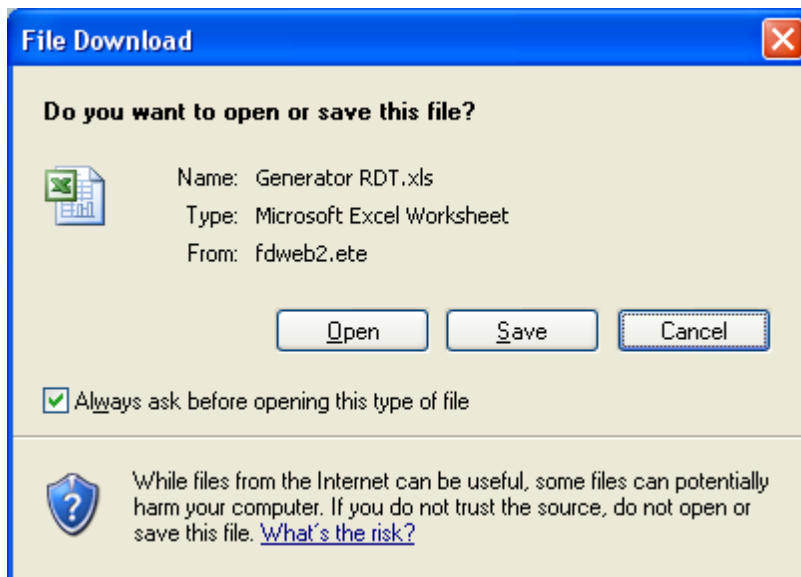


Figure 18: File Download

2. Upon clicking the 'Save' button, the 'Save As' window opens and provides you an option to browse to a destination folder and save the report.

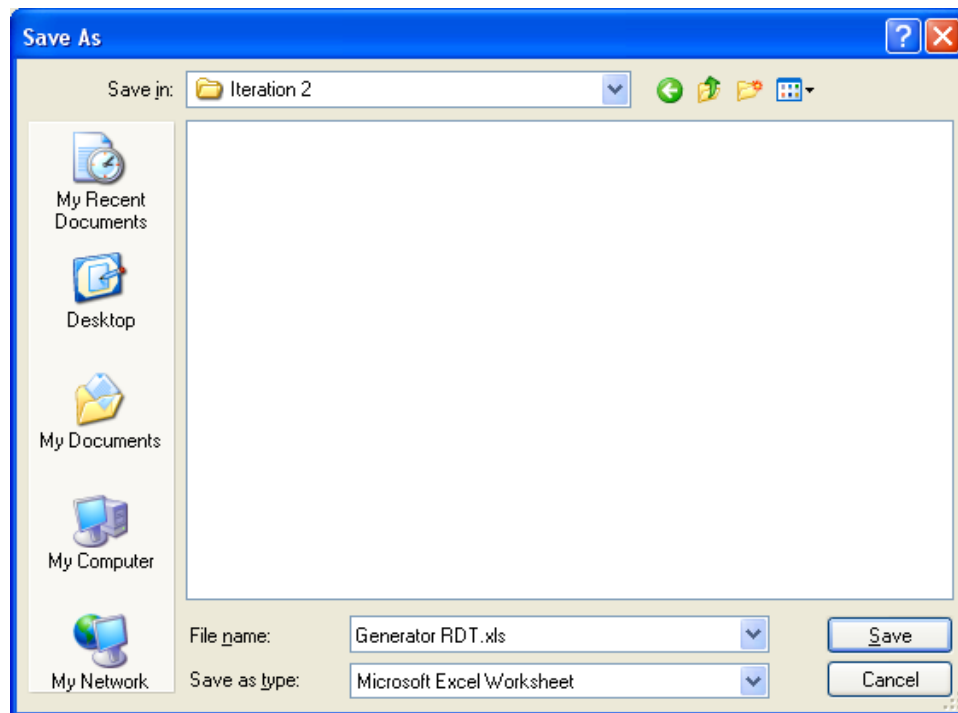


Figure 19: Save As – Browse Window

Note: You may rename the report file to a file name of your choice.

- When the file download is complete and the report has been saved to the selected destination folder, the 'Download Complete' pop-up window appears and you may click on the 'Open' button to view the report.

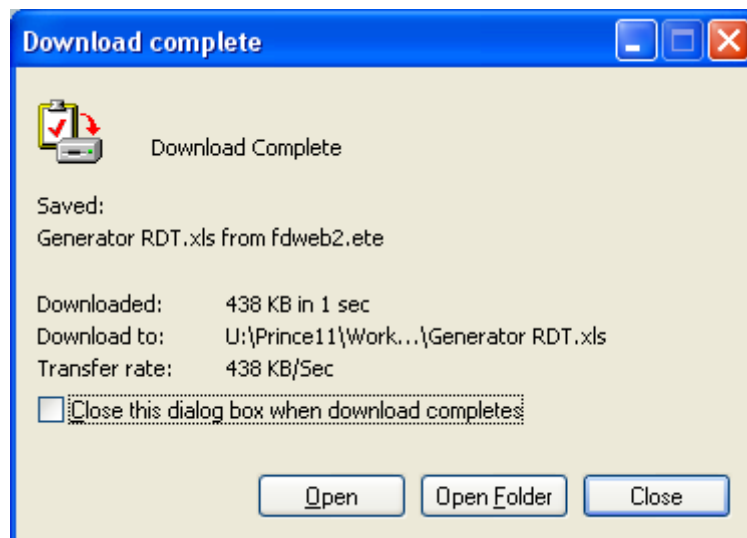


Figure 20: Download Complete

- The system will prompt user to select one certificate to use.

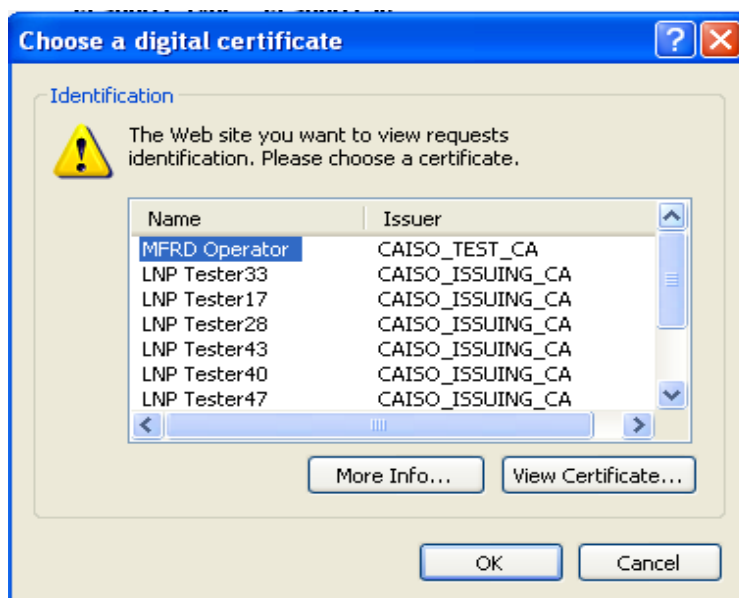


Figure 21: Choose Certificate

- Note:** If you have Excel already open, the request to choose a certificate may be hidden on the Excel Screen. If it seems like it is taking for ever, click on the Excel icon and the prompt for certificate should come to the foreground.

6. Note: The file name is always the same so if you currently have a generator open and try to open another one you will receive an error that looks like this. You can avoid this problem by saving as another name before opening a new generator.

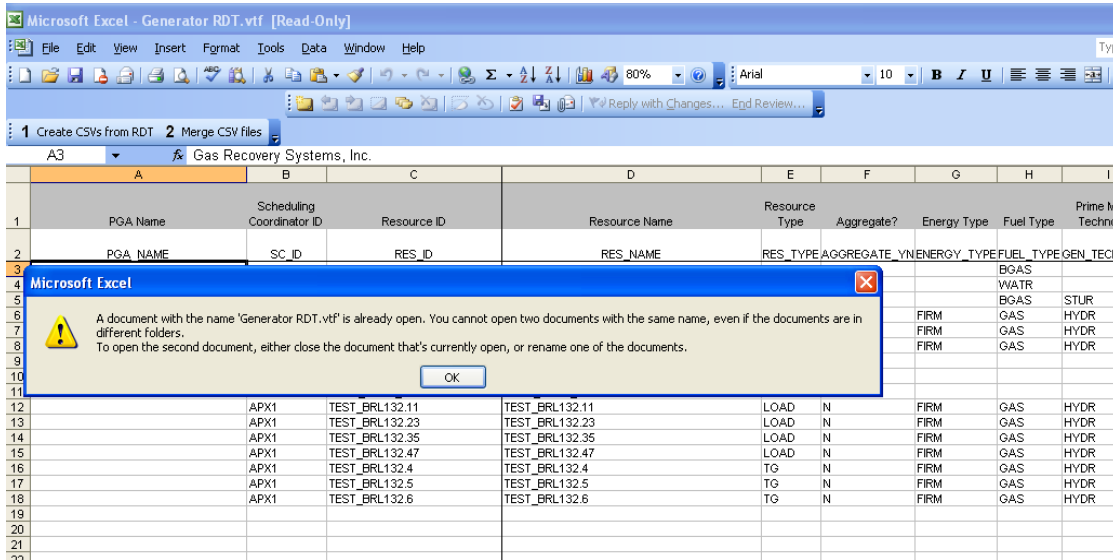


Figure 22: Error – Duplicate File Name

7. The generated report opens up in Microsoft Excel as a workbook with the following worksheets in it:
- **Generator RDT Report** – Instruction, Definition, Code, RESOURCE, RAMPRATE, HEATRATE, STARTUP, FORBIDDEN OPR REGION, REGULATION, REG RAMP, OP RES RAMP
 - **Intertie RDT Report** – Instructions, Pick Lists & Reference, Intertie Resource (Existing)
8. The reports display the following information on the Instructionsheet.
- a) **Report generation timestamp:** The timestamp at which the report was generated (e.g. 01/11/2008 07:59)
 - b) **SCID:** The SCID for which the report was generated
 - c) **Resource Type:** The Resource Types selected when the report was generated (e.g.: Gen/Load/TG/All)
 - d) **Resource ID:** ALL or the selected Resource ID ('ALL' includes all the resources of the Resource Type that are associated to the SCID for the trade date, as selected.)
 - e) **Trade Date:** Effective trade date for which the report has been generated. Because Resource Adequacy capacity and must-offer status can potentially vary on a daily basis, the Resource Adequacy capacity and flag values should be considered valid for only the trade date the report was run. To see Resource Adequacy values for another Trade Date, the report should be generated for that Trade Date.

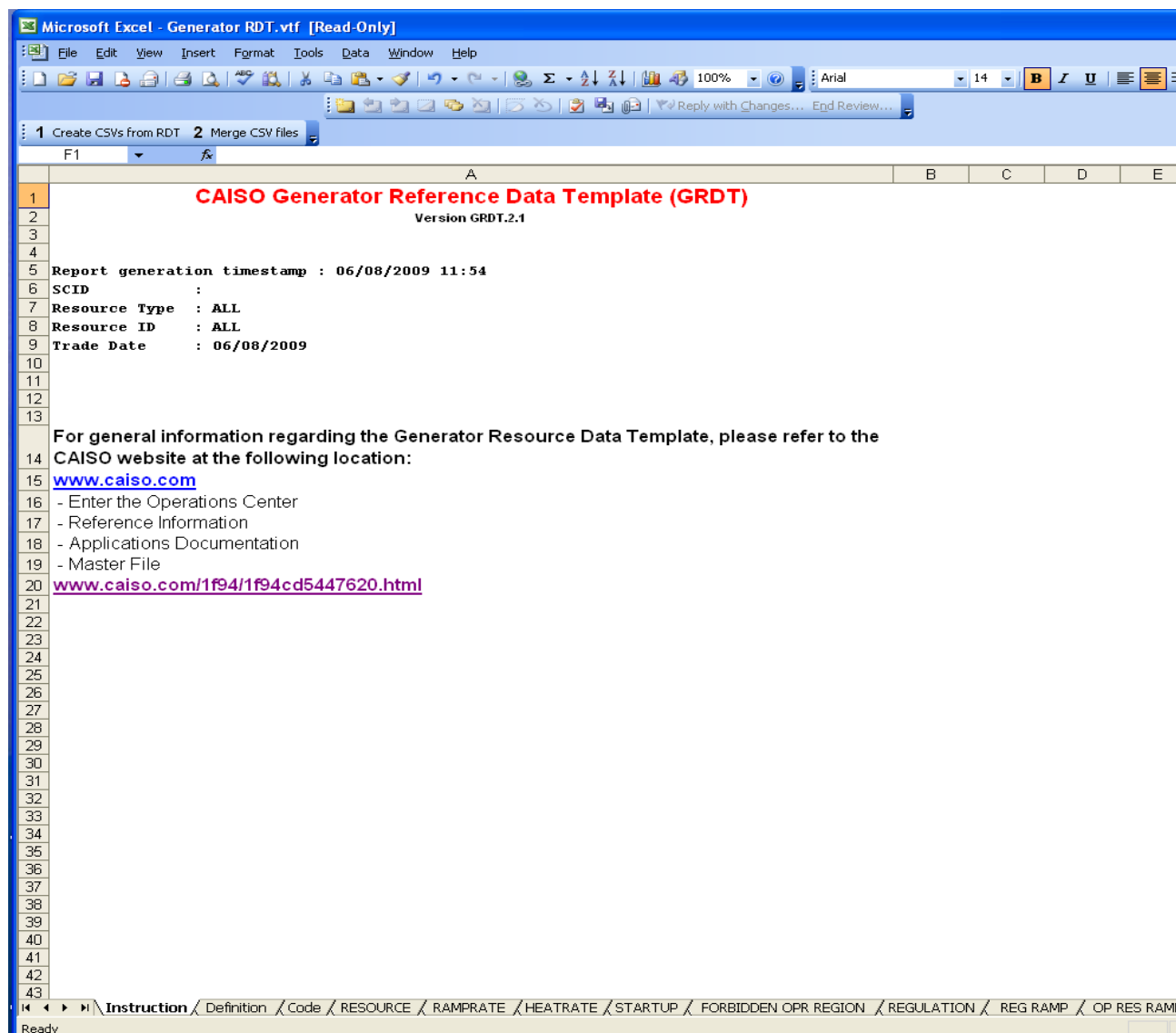


Figure 23: View Report – Instruction sheet

- Click on the relevant worksheet tab to view the data within the worksheet

Microsoft Excel - Generator RDT.xls

File Edit View Insert Format Tools Data FlashPaper Window PI Help

Type a question for help

A3 WILE E ENERGY

	A	B	C	D	E	F	G	H	I	J	K	L	M
	PGA Name	Scheduling Coordinator ID	Resource ID	Resource Name	Resource Type	Aggregate?	Energy Type	Fuel Type	Prime Mover Technology	Generator Type	Fuel Region	Air Quality Management District	Maximum Generation
1	PGA NAME	SC_ID	RES_ID	RES_NAME	RES_TYPE	AGGREGATE_YN	ENERGY_TYPE	FUEL_TYPE	GEN_TECH_TYPE	GEN_TYPE	FUEL_REGN_TYPE	AQM_DIST_TYPE	MAX_GEN
2	WILE E ENERGY	SC9C	1TESTUNIT001	TEST_UNIT_001	GEN	N		OTHR			SC9C		100
3	WILE E ENERGY	SC9C	1TESTUNIT002	TEST_UNIT_002	GEN	N		OTHR			SC9C		100
4	WILE E ENERGY	SC9C	1TESTUNIT003	TEST_UNIT_003	GEN	N		OTHR			SC9C		100
5	WILE E ENERGY	SC9C	1TESTUNIT004	TEST_UNIT_004	GEN	N		OTHR			SC9C		100
6	WILE E ENERGY	SC9C	1TESTUNIT005	TEST_UNIT_005	GEN	N		OTHR			SC9C		100
7	WILE E ENERGY	SC9C	1TESTUNIT006	TEST_UNIT_006	GEN	N		OTHR			SC9C		100
8	WILE E ENERGY	SC9C	1TESTUNIT007	TEST_UNIT_007	GEN	N		OTHR			SC9C		100
9	WILE E ENERGY	SC9C	1TESTUNIT008	TEST_UNIT_008	GEN	N		OTHR			SC9C		100
10	WILE E ENERGY	SC9C	1TESTUNIT009	TEST_UNIT_009	GEN	N		OTHR			SC9C		100
11	WILE E ENERGY	SC9C	1TESTUNIT010	TEST_UNIT_010	GEN	N		OTHR			SC9C		100
12	WILE E ENERGY	SC9C	1TESTUNIT011	TEST_UNIT_011	GEN	N		OTHR			SC9C		100
13	WILE E ENERGY	SC9C	1TESTUNIT012	TEST_UNIT_012	GEN	N		OTHR			SC9C		100
14	WILE E ENERGY	SC9C	1TESTUNIT013	TEST_UNIT_013	GEN	N		OTHR			SC9C		100
15	WILE E ENERGY	SC9C	1TESTUNIT014	TEST_UNIT_014	GEN	N		OTHR			SC9C		100
16	WILE E ENERGY	SC9C	1TESTUNIT015	TEST_UNIT_015	GEN	N		OTHR			SC9C		100
17	WILE E ENERGY	SC9C	1TESTUNIT016	TEST_UNIT_016	GEN	N		OTHR			SC9C		100
18	WILE E ENERGY	SC9C	1TESTUNIT017	TEST_UNIT_017	GEN	N		OTHR			SC9C		100
19	WILE E ENERGY	SC9C	1TESTUNIT018	TEST_UNIT_018	GEN	N		OTHR			SC9C		100
20	WILE E ENERGY	SC9C	1TESTUNIT019	TEST_UNIT_019	GEN	N		OTHR			SC9C		100
21	WILE E ENERGY	SC9C	1TESTUNIT020	TEST_UNIT_020	GEN	N		OTHR			SC9C		100
22	WILE E ENERGY	SC9C	1TESTUNIT021	TEST_UNIT_021	GEN	N		OTHR			SC9C		100
23	WILE E ENERGY	SC9C	1TESTUNIT022	TEST_UNIT_022	GEN	N		OTHR			SC9C		100
24	WILE E ENERGY	SC9C	1TESTUNIT023	TEST_UNIT_023	GEN	N		OTHR			SC9C		100
25	WILE E ENERGY	SC9C	1TESTUNIT024	TEST_UNIT_024	GEN	N		OTHR			SC9C		100
26	WILE E ENERGY	SC9C	1TESTUNIT025	TEST_UNIT_025	GEN	N		OTHR			SC9C		100
27	WILE E ENERGY	SC9C	1TESTUNIT026	TEST_UNIT_026	GEN	N		OTHR			SC9C		100
28	WILE E ENERGY	SC9C	1TESTUNIT027	TEST_UNIT_027	GEN	N		OTHR			SC9C		100
29	WILE E ENERGY	SC9C	1TESTUNIT028	TEST_UNIT_028	GEN	N		OTHR			SC9C		100
30	WILE E ENERGY	SC9C	1TESTUNIT029	TEST_UNIT_029	GEN	N		OTHR			SC9C		100
31	WILE E ENERGY	SC9C	1TESTUNIT030	TEST_UNIT_030	GEN	N		OTHR			SC9C		100
32	WILE E ENERGY	SC9C	1TESTUNIT031	TEST_UNIT_031	GEN	N		OTHR			SC9C		100
33	WILE E ENERGY	SC9C	1TESTUNIT032	TEST_UNIT_032	GEN	N		OTHR			SC9C		100
34	WILE E ENERGY	SC9C	1TESTUNIT033	TEST_UNIT_033	GEN	N		OTHR			SC9C		100
35	WILE E ENERGY	SC9C	1TESTUNIT034	TEST_UNIT_034	GEN	N		OTHR			SC9C		100
36	WILE E ENERGY	SC9C	1TESTUNIT035	TEST_UNIT_035	GEN	N		OTHR			SC9C		100
37	WILE E ENERGY	SC9C	1TESTUNIT036	TEST_UNIT_036	GEN	N		OTHR			SC9C		100

Ready

NUM

Instruction / Definition / Code / RESOURCE / RAMPRATE / HEATRATE / STARTUP / FORBIDDEN OPR REGION / REGULATION / REG RAMP / OP RES RAMP

Figure 24: View Report – Resource sheet

Resource ID	Segment Type	Segment Number	Operating Level	Worst Operational Ramp Rate	Best Operational Ramp Rate	Comment
1TESTUNIT001	RAMP	1	0	10	50	
1TESTUNIT002	RAMP	2	100	51	100	
1TESTUNIT003	RAMP	1	0	10	50	
1TESTUNIT004	RAMP	1	100	51	100	
1TESTUNIT005	RAMP	2	0	10	50	
1TESTUNIT006	RAMP	2	100	51	100	
1TESTUNIT007	RAMP	1	0	1	9	
1TESTUNIT008	RAMP	2	100	10	100	
1TESTUNIT009	RAMP	2	0	10	50	
1TESTUNIT010	RAMP	2	100	51	100	
1TESTUNIT011	RAMP	1	0	10	50	
1TESTUNIT012	RAMP	1	100	51	100	
1TESTUNIT013	RAMP	1	0	10	50	
1TESTUNIT014	RAMP	2	100	51	100	
1TESTUNIT015	RAMP	1	0	10	50	
1TESTUNIT016	RAMP	1	100	51	100	
1TESTUNIT017	RAMP	1	0	10	50	
1TESTUNIT018	RAMP	2	100	51	100	
1TESTUNIT019	RAMP	1	0	10	50	
1TESTUNIT020	RAMP	2	100	51	100	
1TESTUNIT021	RAMP	1	0	10	50	
1TESTUNIT022	RAMP	2	100	51	100	
1TESTUNIT023	RAMP	1	0	10	50	
1TESTUNIT024	RAMP	2	100	51	100	
1TESTUNIT025	RAMP	1	0	10	50	
1TESTUNIT026	RAMP	2	100	51	100	
1TESTUNIT027	RAMP	1	0	10	50	
1TESTUNIT028	RAMP	2	100	51	100	
1TESTUNIT029	RAMP	1	0	10	50	
1TESTUNIT030	RAMP	2	100	51	100	
1TESTUNIT031	RAMP	1	0	10	50	
1TESTUNIT032	RAMP	2	100	51	100	

Figure 25: View Report – Segment sheet

6.3 Resources with Approved Changes Becoming Effective

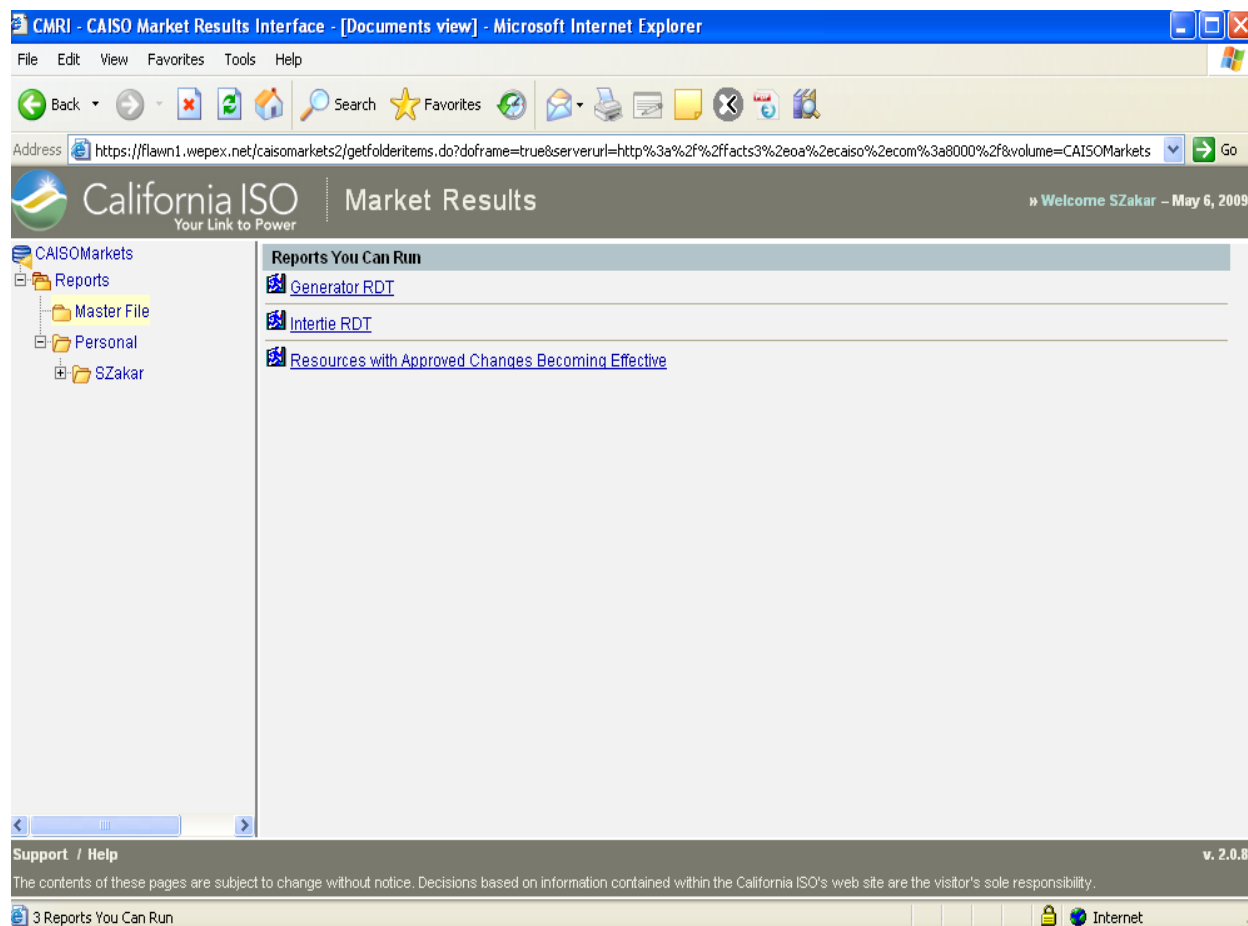


Figure 26: Main Reporting Screen

1. To display a list of resources that will have changes during a particular time frame, the Resources with Approved Changes Report may be generated. This report is useful for identifying when a bid may need to be modified. The report does not include the actual changes, but will show the effective data of a change. An RDT can then be generated for that effective date to see the actual latest data. The largest range of days that may be selected when generating this report is 30 days.
2. The default date criterion is as follows:
 - From Date: Today
 - Through Date: Today + 7 days
 - SC ID: Is Required
3. Please Note: The Approved Changes Report will not show resources with changes until the day after the change was approved.

6.3.1 Search Criteria

CMRI - CAISO Market Results Interface - [Documents view] - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://flawn1.wepex.net/caisomarkets2/getfolderitems.do?doframe=true&serverurl=http%3a%2f%2ffacts3%2eoa%2eca iso%2ecom%3a8000%2f&volume=CAISO> Go

California ISO Market Results
Your Link to Power » Welcome SZakar - May 12, 2009

CAISO Markets
Reports
Master File
Personal
SZakar

Resources with Approved Changes Becoming Effective

SCID: -Select- From Date: 05/12/2009
Through Date: 05/19/2009

View Report

TOC First Prev Next Last Goto Page 1 of 1 100% Search Download Excel Print Help X

To generate & view report:

- Select report filter options.
- Click on the View Report button.
- Results will open up in Excel.

Support / Help v. 2.0.8

The contents of these pages are subject to change without notice. Decisions based on information contained within the California ISO's web site are the visitor's sole responsibility.

3 Reports You Can Run Internet

Figure 27: Enter Report Search Criteria

6.3.2 Report Output

Microsoft Excel - Resources with Approved Changes Becoming Effective.xls

Resources with Approved Changes Becoming Effective

Effective Date	Resource ID	Resource Name	Resource Type	Submitter	Submission Date	File Name	Approval Date	Batch ID
10/1/2008	SC9C_RIKER_E_F_ALPHA	SC9C_RIKER_E_F_ALPHA	ETIE					
10/1/2008	SC9C_RIKER_E_F_BAKER	SC9C_RIKER_E_F_BAKER	ETIE					
10/1/2008	SC9C_RIKER_E_F_CHARLIE	SC9C_RIKER_E_F_CHARLIE	ETIE					
10/1/2008	SC9C_RIKER_E_F_DELTA	SC9C_RIKER_E_F_DELTA	ETIE					
10/1/2008	SC9C_RIKER_E_F_FOXTROT	SC9C_RIKER_E_F_FOXTROT	ETIE					
10/1/2008	SC9C_RIKER_E_NF_ALPHA	SC9C_RIKER_E_NF_ALPHA	ETIE					
10/1/2008	SC9C_RIKER_E_NF_BAKER	SC9C_RIKER_E_NF_BAKER	ETIE					
10/1/2008	SC9C_RIKER_E_NF_CHARLIE	SC9C_RIKER_E_NF_CHARLIE	ETIE					
10/1/2008	SC9C_RIKER_E_NF_DELTA	SC9C_RIKER_E_NF_DELTA	ETIE					
10/1/2008	SC9C_RIKER_E_NF_FOXTROT	SC9C_RIKER_E_NF_FOXTROT	ETIE					
10/1/2008	SC9C_RIKER_E_I_ALPHA	SC9C_RIKER_E_I_ALPHA	ITIE					
10/1/2008	SC9C_RIKER_E_I_BAKER	SC9C_RIKER_E_I_BAKER	ITIE					
10/1/2008	SC9C_RIKER_E_I_CHARLIE	SC9C_RIKER_E_I_CHARLIE	ITIE					
10/1/2008	SC9C_RIKER_E_I_DELTA	SC9C_RIKER_E_I_DELTA	ITIE					
10/1/2008	SC9C_RIKER_E_I_FOXTROT	SC9C_RIKER_E_I_FOXTROT	ITIE					
10/1/2008	SC9C_RIKER_I_NF_ALPHA	SC9C_RIKER_I_NF_ALPHA	ITIE					
10/1/2008	SC9C_RIKER_I_NF_BAKER	SC9C_RIKER_I_NF_BAKER	ITIE					
10/1/2008	SC9C_RIKER_I_NF_CHARLIE	SC9C_RIKER_I_NF_CHARLIE	ITIE					
10/1/2008	SC9C_RIKER_I_NF_DELTA	SC9C_RIKER_I_NF_DELTA	ITIE					
10/1/2008	SC9C_RIKER_I_NF_FOXTROT	SC9C_RIKER_I_NF_FOXTROT	ITIE					
10/1/2008	BASKERVILLE	SMALL OF AGGREGATION - BASKERVILLE	GEN					

Figure 28: Report Output

The report output is presented in an Excel Spreadsheet with a default sort order of ascending by effective date (smallest date to largest). To see the details of the changed Approved data, the RDT report must be generated for the Effective Date listed in the Approved Changes report.

6.4 All Other Program Features/Tasks

1. The Generator RDT Report will display the following Resource Adequacy data sourced from the ISO Reliability Requirements (IRR) system.
 - a. Resource Adequacy Capacity - RR_CAPACITY
 - b. Must Offer Obligation Flag - MOO_FLAG
 - c. Resource Adequacy Flag - RA_FLAG

6.5 Program Limitations

1. Reports can only be run for 'ALL' resources or one specific resource. At this time, the reports do not allow for multiple Resource Id selections.
2. Reports include only "Approved" data.
3. "Approved" data is included in reports beginning on the calendar day following the day a data change has been approved by ISO staff.

7. Data Load

7.1 Uploading using the Data Load feature

1. Click the “Data Load” tab from the home page.
2. The system displays the “Data Load Page” as below.

California ISO
Shaping a Renewed Future

Master File

>> Welcome [redacted] – January 22, 2015

Upload Reports Status Actions Data Load Rates Notifications Help

Data Load

File Name No file selected.

File Type Association ▼

Figure 29: Data Load Page

3. Interact with the following elements on the data load screen:
 - a. **File Type** – Select the type of file that needs to be uploaded. The options are:
 - Association
 - Contract

- Group
- Group Detail
- Participant
- Resource

Each file type from the above list uses a different template and the uploaded file is validated against a different set of rules based on this selection once the file is accepted for processing.

- b. **File Name** – Use the “Browse” button to locate and select the file that you want uploaded and the “Load” button to upload the selection for processing. When Load is selected, the system will perform basic validation on the file. For example, it will verify that the file name is not more than 100 characters and the extension is either .xls or .xlsx for “Resource” and .csv for the other options. If these validations fail, the file will not be accepted and an error message explaining the reason will display on the upper left hand corner of the screen. The errors can be addressed and the file can be re-uploaded.

Once the upload is successful, a “zip” file will be presented to the user with information related to the basic validation on the data. The batch will be set to “Fail” status if the data does not meet the criteria.

8. Actions

8.1 Actions related to Batch

Purpose: The purpose of this tab is to let internal admins review and take action on a batch.

1. Click on the “Actions” tab on the header block.
2. The system responds by showing the “RDT Actions” screen.

The screenshot shows the 'RDT Actions' page within the 'Master File' application. The header includes the 'California ISO' logo with the tagline 'Shaping a Renewed Future', the 'Master File' title, and a 'Welcome:' message. A navigation bar contains tabs for 'Upload', 'Reports', 'Status', 'Actions', 'Data Load', 'Rates', 'Notifications', and 'Help'. The 'RDT Actions' section features a form with an 'Action' dropdown menu, a 'Batch ID' input field, a 'Change Request ID' input field, and a 'Run' button. The main content area below the form is currently empty.

Figure 30: RDT Actions page

3. The following actions are available to be performed on a batch:

- Approve (RDT)
- Approve (non RDT)
- Cancel Batch
- Compare Report
- Get RDT File
- Validation Report

The “Approve (RDT)” option mandates a Change Request Id to be put in the system for tracking purposes.

4. Errors related to the action will be displayed on the upper left hand side of the screen.

9. Rates

9.1 Updating the Rates

Purpose: The purpose of this tab is to let internal admins establish the rate that should be used for a specific rate type and the effective date range.

1. Click on the “Rates” tab on the header block.
2. The system responds by showing the “Rates” screen.

The screenshot displays the 'Rates' page within the California ISO Master File interface. The header includes the California ISO logo, the text 'Shaping a Renewed Future', and a 'Master File' title. A navigation bar contains tabs for Upload, Reports, Status, Actions, Data Load, Rates (selected), Notifications, and Help. A 'Welcome:' message is visible on the right.

The main content area is titled 'Rates'. It features a 'Filter - Rate Type' dropdown set to 'BIDSGMNT'. Below this is a table with the following columns: Rate Type, Start Date, End Date, Rate, Change Request Id, Updated By, Last Updated, and Comment.

Rate Type	Start Date	End Date	Rate	Change Request Id	Updated By	Last Updated	Comment
BIDSGMNT	Oct 16, 2013	Oct 31, 2013	0			Oct 29, 2013	Pre-Activation ...
BIDSGMNT	Nov 01, 2013	Dec 31, 2013	0			Dec 26, 2013	GMC rates for 2013
BIDSGMNT	Jan 01, 2014	Dec 31, 2014	0			Dec 26, 2013	GMC rates for 2014
BIDSGMNT	Jan 01, 2015	Dec 31, 2015	0			Dec 30, 2014	GMC rates for 2015

Below the table is a form for adding or updating a rate. It includes fields for Rate Type (dropdown), Effective Start Date (calendar icon), Effective End Date (calendar icon), Rate (text input), and Change Request Id (text input). There is also a large text area for a Comment. At the bottom of the form are 'Save' and 'Cancel' buttons, and a status message: '255 characters remaining.'

Figure 31: Rates page

3. The internal admin user will select the appropriate rate type and the effective dates between which the rate shall be valid along with a comment. The change request id is a mandatory field and must be provided to update the rate.

10. Notifications

10.1 Show notifications

Purpose: The purpose of this tab is to let internal admins enter a notification or message that will be displayed on the bottom of the screen for all users. This feature can be used to keep the users informed of any upcoming activities specific to the application such as planned maintenance.

1. Click on the “Notifications” tab on the header block.
2. The system responds by showing the “Notifications screen.

The screenshot displays the 'Notifications' tab in the 'Master File' interface. At the top, there's a header with the California ISO logo and a navigation bar with tabs: Upload, Reports, Status, Actions, Data Load, Rates, Notifications (selected), and Help. Below the header, the 'Notifications' section contains a table titled 'Messages For Participants'.

Start Date	End Date	Updated By	Last Updated	Message
Dec 24, 2014	Dec 30, 2014		Dec 24, 2014	MF freeze planned for FNM DB73 deployment: Dec.31-Jan.13, UI/API submission black-out period; Jan.8-15, effective date black-out period (registered cost updates can be made effective Jan.9, 12 or 13).
Dec 31, 2014	Jan 13, 2015		Dec 24, 2014	MF freeze in progress for FNM DB73 deployment:Dec.31-Jan.13, UI/API submission black-out period; Jan.8-15, effective date black-out period (registered cost updates can be made effective Jan.9,12 or 13

Below the table is a form to add a new notification. It includes fields for 'Effective Start Date' and 'Effective End Date', each with a calendar icon. There is a large text area for the 'Message'. At the bottom of the form are 'Save' and 'Cancel' buttons, and a status indicator that says '200 characters remaining.'

Figure 32: Notifications page

3. The internal admin user can upload the message not more than 200 characters and the effective dates between which the notification will be shown

11. Help

11.1 Help on the Master File User Interface

The help page is pointed to the Master File Homepage that includes key information about Master File as well as this User Manual. A sample picture of the site is shown below. Here is the link to the Master File Homepage: <http://www.caiso.com/1f94/1f94cd5447620.html>.

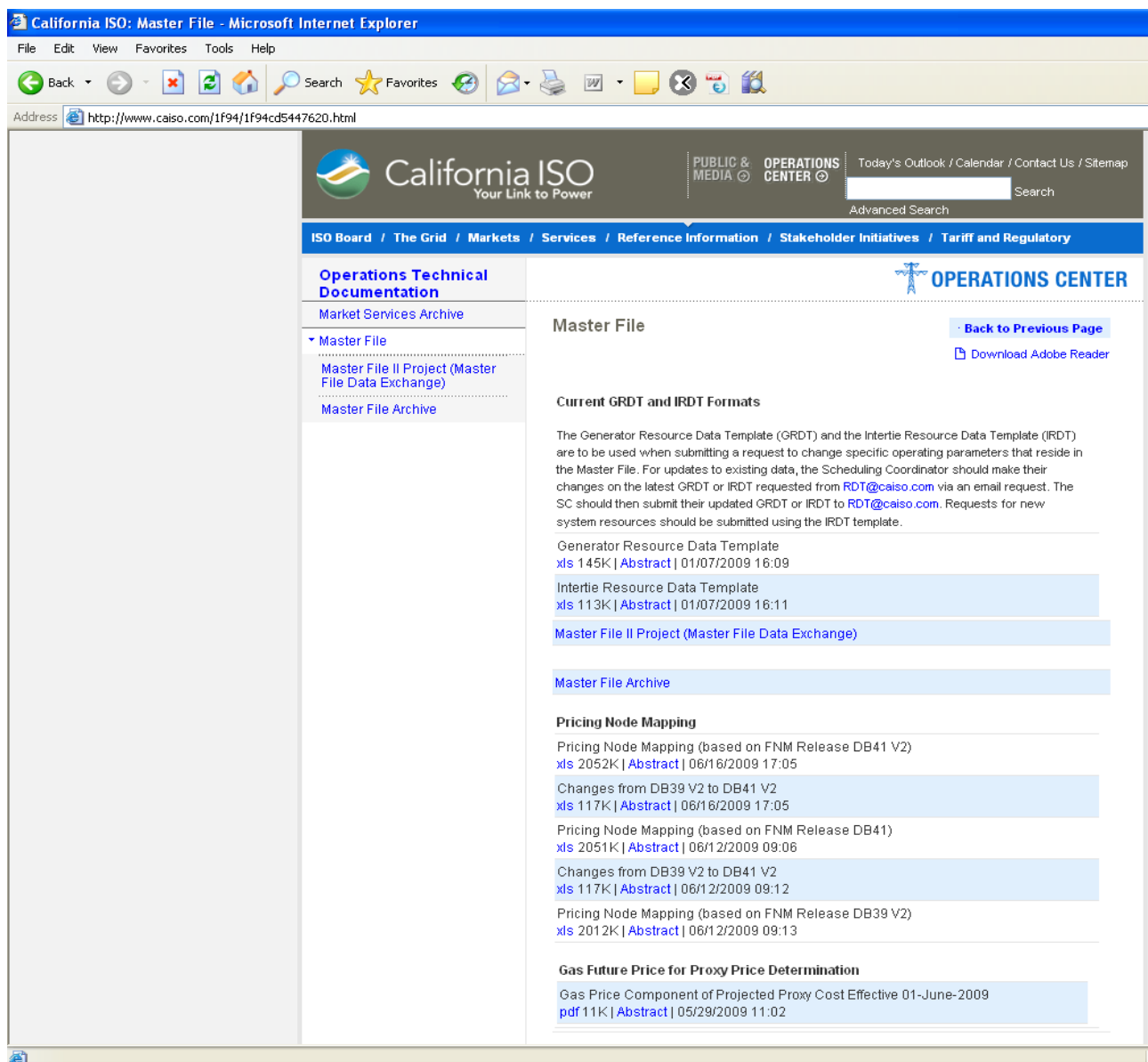


Figure 33: Help Web Page

12. Troubleshooting/FAQ

12.1 *In the RDT Upload function what is an acceptable file name for the upload?*

Any standard Windows file names are acceptable. While spaces are allowed in the file name, the following characters should be avoided: &, @, and ;

12.2 *How do I see the report parameters once the report has been saved?*

The report parameters are displayed on the Instruction sheet of the report.
The instruction sheet also displays the Report Generation Timestamp which shows the time at which the data was queried.

12.3 *Do the reports display pending data?*

No, the reports display only 'Approved' data.

12.4 *Do the reports display resources that do not have an association with an SCID?*

No, the reports display only those resources that have an active association with the selected SCID for a selected trade date.

12.5 *Why can't I see all the resources in the RESOURCE_ID drop down list?*

The report screen's drop-down-list of Resource IDs displays only those resources that have an active association with the selected SC ID for the specified resource type and trade date.

12.6 *Can the report be generated for multiple SC IDs into a single output?*

No, the reports can be generated for only one SCID at a time.

12.7 *In what order is the data sorted in the reports?*

The reports display the data based on the following sort order:

For the Intertie RDT Report, the resource records shall be sorted on the following fields in an ascending order

- RES_TYPE
- RES_ID

For the Generator RDT Report, the resource records shall be sorted on the following fields in an ascending order:

- RES_TYPE
- RES_ID

For segments data on the Generator RDTs, the records shall be sorted on the following fields in an ascending order:

- RES_ID
- SEG_TYPE worksheets to appear in this order (RAMP, HEAT, STRT, FRBD, REG, RREG, ROPR)
- SEG_NUM

12.8 *Which application sources the RA / MOO values? Is it Master File?*

1. The RDT reports display the following fields in the Generator RDT Report sourced from IRR:
 - Resource Adequacy Capacity
 - Must Offer Obligation Flag
 - Resource Adequacy Flag
2. The MOO Qualified flag is sourced from Master File.

12.9 *The RA / MOO values sourced from IRR can potentially vary on an hourly/daily basis. Which date's values are displayed in the reports?*

The values displayed in the report are applicable for the 'Trade Date' for which the report has been generated. The instruction sheet also displays the Report Generation Timestamp which shows the time at which the data was queried.

13. Contact Information

- *During Testing please follow the Issue Reporting Information instructions in the Master File Data Exchange External Testing instructions*

Appendix A – External User Request for Certificate

A.1 Digital Certificate

A Digital Certificate must be obtained and installed before you can access the Master File User Interface for the first time.

Please submit your request utilizing the current User Application Access Request Form. The User Application Access Request Form can be found at the following link:

<http://www.caiso.com/pubinfo/info-security/certs/index.html>

When requesting application access, please download the latest form from the website every time. The User Application Access Request Form continues to be very dynamic as new applications and environments are rolled out. By accessing the current form every time, you will be able to select from all the available applications and environments, and all the necessary information will be collected.

- **Fill out** the form following the instructions, as shown below.
- **Save** as an Excel file to your drive.
- **Email** the completed form to CertRequest@caiso.com

A.2 Certificate Installation

Once approved, Certificate Request replies via e-mail with the Digital Certificate and password. A password is required for the initial login only. All ensuing accesses automatically connect you.

- **Save** the certificate file and installation PIN in a secure location for possible future use **and follow** the installation instructions provided.

A.3 Accessing the Master File User Interface

- Type the appropriate URL address into your browser address bar.

Master File Production Environment

<https://portal.caiso.com>

Select **Master File**



or

<https://portal.caiso.com/mf>

Port number is 443

Appendix B – User Messages

User Messages

Message Name	Message Text	When Message will be shown
<u>RDT Upload</u>		
rdtUpload_fileName_required_msg	RDT input file is required	No input file has been provided
rdtUpload_fileName_validation_msg	RDT input file name must be < 100 characters	File name entered is > 100 chars
rdtUpload_scid_required_msg	SC Id required	SC Id not entered
rdtUpload_rdtType_required_msg	RDT type is required	RDT Type is not selected (Gen or Intertie)
rdtUpload_effectiveDate_required_msg	Effective date is required	Effective date is not entered or selected
rdtUpload_effectiveDate_msg	Effective date must be set to a minimum of today + 5 business days	Effective date rule has been broken
rdtUpload_comments_validation_msg	Comments must be < 255 characters	More than 255 bytes has been entered
rdtUpload_success_msg	RDT file was successfully uploaded	All is good
rdtUpload_processing_error_msg	Errors encountered trying to process RDT; see errors below	Errors in the RDT data
rdtUpload_archiving_error_msg	Error archiving RDT	Internal Error
rdtUpload_transformation_error_msg	Error transforming RDT	Internal Error
rdtUpload_calendar_error_msg	Error calling calendar service	Internal Error
rdtUpload_error_msg	Errors processing request; see log files for details	Bad system error, contact ISO Support with time error occurred and by who
submitRdtDescription	{0} ¹ updates were successfully received.	API – When submission is successful. The parameter is the number of updates submitted.
submitRdtResult	Records received={0} ¹ , batchId={1} ¹	API – When submission is successful, the API returns this as a message. The first parameter is the number of records, second is the batch id.
submitRdtResultError	Errors encountered	API – when any errors are detected, this will be the message that the API will show.
rdtProcessorUserComment	Updated via the {0} ¹	This is the default User Comment that will be applied to all resources in the batch. The parameter will have 'UI' or 'API' as its possible values.

¹ The curly braces mean that a value will be substituted, multiple substitutions per message are possible

Internal message	Invalid Spreadsheet	This error would be displayed if you passed it a file that is not a XLS file or the XLS file is corrupted / can not be read
Internal message	{sheetMapping.sheetName} sheet not found in xls.	The required sheets are defined in the XML config file and if one sheet is not found in the XLS you will receive this message
Internal message	Missing sheet {sheetName}	This error is redundant and will not occur. It will be caught by the check in previous line's validation .
Internal message	{segment}, {resId}{sheetMapping.resIdCol}{row}, Parent resource not found	This error will be displayed if segment data for a Resource Id is being updated but there is no record of the Resource Id on the Resource sheet
Internal message	Missing segment sheet {segment}	This error is redundant and will not occur. The existence of worksheets has already been validated.
Internal message	Value required for {mappingEntry.description}	This error would occur if the XML config file has a field set to required = true. Currently the Resource Id field is the only field that is required on Intertie/Generator submissions
Internal message	{Resource ID}: RDT resource does not exists in approved status for a given start date	This error would occur if a submitted resource does not have an Approved version that matches the given start date.
Internal message	{Resource ID}: RDT resource does not belong to selected SC for a given start date	This error would occur if a submitted resource doesn't have an Association to the Market Participant that the submitter is authorized to submit for on the given start date.
RDT Status		
rdtStatus_no_records_found_msg	No status records found for scid {0} ¹	Status query can't find any submissions, the parameter is the SC_ID that was searched for
rdtStatus_error_msg	Errors processing request; see log files for details	System Error, contact ISO support
rdtStatus_scid_required_msg	SC Id required	You must enter an SC ID
Common Messages		
missingUserId	You are not authorized for this request	You shouldn't see this message since you shouldn't be able to choose any option that is not valid for your use.
missingScId	A valid Scheduling Coordinator is required	When a SC_ID is presented that doesn't match the security certificate of the User.
serviceError	Error accessing service: {0} ¹	API – trying to access one of the API Services that doesn't exist or

		you provided inappropriate input to. The parameter is the name of the service that you are trying to use.
noResultsFound	No results were found	API – When no records match the record you are searching for.

¹ The curly braces mean that a value will be substituted; multiple substitutions per message are possible

Generator RDT Field Error Messages

Field Name	Message Text	When Message will be shown
Resource		
PGA Name	PGA Name > 80 characters	More than 80 chars are present
Resource ID	Resource ID > 32 characters	More than 32 chars are present
Resource Name	Resource Name > 40 characters	More than 40 chars are present
Resource Type	Resource Type needs to be 'GEN', 'TG', or 'LOAD'	Invalid Res Type presented
Aggregate Resource	Aggregate? Needs to be 'Y' or 'N'	Invalid value presented
Energy Type	Energy Type needs to be 'DYN', 'FIRM', or null	Invalid value presented
Fuel Type	Fuel Type needs to be 'BGAS', 'BIOM', 'COAL', 'DIST', 'GAS', 'GEOT', 'HRCV', 'NONE', 'NUCL', 'OIL', 'OTHR', 'SOLR', 'WAST', 'WATR', or 'WIND'	Invalid value presented
Gen Tech Type	Prime Mover Technology needs to be 'CCYC', 'GTUR', 'HYDR', 'OTHR', 'PHOT', 'PTUR', 'PUMP', 'RECP', 'STUR', 'SYNC', or 'WIND'	Invalid value presented
Gen Type	Generator Type must be must be 'H' or 'T'	Invalid value presented
Fuel Region	Fuel Region needs to be 'CISO', 'PGE2', 'SCE1', 'SCE2', 'SDG1', or 'SDG2'	Invalid value presented
Air Quality Management District	Air Quality Management District > 4 characters	More than 4 chars are present
Max Gen	Maximum Generation Capacity needs to be a valid number	Not a proper number
Min Gen	Minimum Generation Capacity needs to be a valid number	Not a proper number
Min Dispatchable Level	Minimum Dispatchable Level needs to be a valid number	Not a proper number
Min On Time	Minimum On Time needs to be a valid number	Not a proper number
Max On Time	Maximum On Time needs to be a valid number	Not a proper number
Max Off Time	Maximum Off Time needs to be a valid number	Not a proper number
Max Startups Per Day	Maximum Startups Per Day needs to be a valid number	Not a proper number
Min Load Cost	Minimum Load Cost needs to be a valid number	Not a proper number
Cost Basis	Cost Basis values are 'PRXC' or 'REGC'	Invalid value presented
Max Pump Capacity	Maximum Pump Capacity needs to be a valid number	Not a proper number
Pump Min Cost	Pump Minimum Cost needs to be a valid number	Not a proper number
Pumping Factor	Pumping Factor needs to be a valid number	Not a proper number
Pump Max Daily Startups	Maximum Pump Capacity needs to	Not a proper number

	be a valid number	
Pump Min Up Time	Pump Minimum Up Time needs to be a valid number	Not a proper number
Pump Min Down Time	Pump Minimum Down Time needs to be a valid number	Not a proper number
Pump Max Shutdown Cost	Pump Maximum Shutdown Cost needs to be a valid number	Not a proper number
Pump Shutdown Time	Pump Shutdown Time needs to be a valid number	Not a proper number
Variable Cost Option	Variable Cost Option needs to be '1', '2' or '3'	Invalid value presented
Negotiated Rate Option	Negotiated Rate Option needs to be '1', '2' or '3'	Invalid value presented
LMP Option	LMP Option needs to be '1', '2' or '3'	Invalid value presented
Reserve Capacity: Spin	Reserve Capacity: Spin needs to be a valid number	Not a proper number
Reserve Capacity: NSpin	Reserve Capacity: Non-Spin needs to be a valid number	Not a proper number
Certified PIRP	Certified PIRP needs to be 'Y' or 'N'	Invalid value presented
RA Flag	Resource Adequacy Flag needs to be 'Y' or 'N'	Invalid value presented
MOO Flag	Must Offer Obligation Flag needs to be 'Y' or 'N'	Invalid value presented
RA Capacity	Resource Adequacy Capacity needs to be a valid number	Not a proper number
MOO Qualified	Must Offer Obligation Qualified Flag needs to be 'Y', 'N' or 'R'	Invalid value presented
Startup Code Type	Startup Code Type > 4 characters	More than 4 chars are present
PGA Flag	Participating Generator Agreement Flag needs to be 'Y' or 'N'	Invalid value presented
COG	Constrained Output Generator Flag needs to be 'Y' or 'N'	Invalid value presented
Certified RUC	Certified for RUC? needs to be 'Y' or 'N'	Invalid value presented
LMPM Flag	Market Power Mitigation Participation Flag needs to be 'Y' or 'N'	Invalid value presented
Certified for AS: Regulation	Certified for AS: Regulation needs to be 'Y' or 'N'	Invalid value presented
Certified for AS: Spin	Certified for AS: Spin needs to be 'Y' or 'N'	Invalid value presented
Certified for AS DAM: NSpin	Certified for AS DAM: Non-Spin needs to be 'Y' or 'N'	Invalid value presented
Certified for AS RTM: NSpin	Certified for AS RTM: Non-Spin needs to be 'Y' or 'N'	Invalid value presented
MSS Load Following Down	MSS Load Following Down needs to be 'Y' or 'N'	Invalid value presented
MSS Load Following Up	MSS Load Following Up needs to be 'Y' or 'N'	Invalid value presented
QF Flag	FERC Qualifying Facility Flag needs to be 'Y' or 'N'	Invalid value presented
Use Limit Flag	Use Limit needs to be 'Y' or 'N'	Invalid value presented
Operating Maintenance Cost	Operating Maintenance Cost needs to be a valid number	Not a proper number

Priority Type	Priority Type > 4 characters	More than 4 chars are present
Dispatchable Flag	Dispatchable needs to be 'Y' or 'N'	Invalid value presented
RMR Flag	RMR needs to be 'Y' or 'N'	Invalid value presented
Max Ramp Rate	Maximum Ramp Rate needs to be a valid number	Not a proper number
Price Setter – DAM	Price Setter - DAM needs to be 'Y' or 'N'	Invalid value presented
Price Setter – RTM	Price Setter - RTM needs to be 'Y' or 'N'	Invalid value presented
RAMP RATE Segments		
Resource Id	Resource ID > 32 characters	More than 32 chars are present
Segment Number	Segment Number needs to be a valid number	Not a proper number
Operating Level	Operating Level needs to be a valid number	Not a proper number
Worst Operational Ramp Rate	Worst Operational Ramp Rate needs to be a valid number	Not a proper number
Best Operational Ramp Rate	Best Operational Ramp Rate needs to be a valid number	Not a proper number
HEAT RATE Segments		
Resource Id	Resource ID > 32 characters	More than 32 chars are present
Segment Number	Segment Number needs to be a valid number	Not a proper number
Heat Rate Operating Level	Heat Rate Operating Level needs to be a valid number	Not a proper number
Heat Rate	Heat Rate needs to be a valid number	Not a proper number
Heat Emission Rate	Heat Emission Rate needs to be a valid number	Not a proper number
Average Cost	Average Cost needs to be a valid number	Not a proper number
STARTUP Segments		
Resource Id	Resource ID > 32 characters	More than 32 chars are present
Segment Number	Segment Number needs to be a valid number	Not a proper number
Registered Cooling Time	Registered Cooling Time needs to be a valid number	Not a proper number
Start-Up Time	Start-Up Time needs to be a valid number	Not a proper number
Start-Up Cost	Start-Up Cost needs to be a valid number	Not a proper number
Start-Up Aux	Start-Up Aux needs to be a valid number	Not a proper number
Start-Up Fuel	Start-Up Fuel needs to be a valid number	Not a proper number
FORBIDDEN Segments		
Resource Id	Resource ID > 32 characters	More than 32 chars are present
Segment Number	Segment Number needs to be a valid number	Not a proper number
Lower MW of Forbidden Region	Lower MW of Forbidden Region needs to be a valid number	Not a proper number
Upper MW of Forbidden Region	Upper MW of Forbidden Region needs to be a valid number	Not a proper number

Crossing Time	Crossing Time of Forbidden Region needs to be a valid number	Not a proper number
REGULATION Segments		
Resource Id	Resource ID > 32 characters	More than 32 chars are present
Segment Number	Segment Number needs to be a valid number	Not a proper number
Lower MW of Regulation	Lower MW for Regulation needs to be a valid number	Not a proper number
Upper MW of Regulation	Upper MW for Regulation needs to be a valid number	Not a proper number
REG RAMP RATE Segments		
Resource Id	Resource ID > 32 characters	More than 32 chars are present
Segment Number	Segment Number needs to be a valid number	Not a proper number
Worst Regulation Ramp Rate	Worst Regulation Ramp Rate needs to be a valid number	Not a proper number
Best Regulation Ramp Rate	Best Regulation Ramp Rate needs to be a valid number	Not a proper number
OPER RES RAMP RATE Segments		
Resource Id	Resource ID > 32 characters	More than 32 chars are present
Segment Number	Segment Number needs to be a valid number	Not a proper number
Worst Operating Res Ramp Rate	Worst Operating Res Ramp Rate needs to be a valid number	Not a proper number
Best Operating Res Ramp Rate	Best Operating Res Ramp Rate needs to be a valid number	Not a proper number

Intertie RDT Field Error Messages

Field Name	Message Text	When Message will be shown
Resource		
Res ID	Resource ID > 32 characters	More than 32 chars are present
Energy Type	Energy Type needs to be 'FIRM', 'NFRM', 'WHL', or 'UCTG'	Invalid value presented
Min Hourly Block Limit	Minimum Hourly Block Limit needs to be a valid number	Not a proper number
Certified for AS: Spin	Certified for A/S: Spin needs to be 'Y' or 'N'	Invalid value presented
Certified for AS DAM: Non-Spin	Certified For A/S Non Spin DAM needs to be 'Y' or 'N'	Invalid value presented
Certified for AS RTM: Non-Spin	Certified for A/S Non Spin RTM needs to be 'Y' or 'N'	Invalid value presented
Spinning Reserve Capacity	Spinning Reserve Cap needs to be a valid number	Not a proper number
Non-Spinning Reserve Capacity	Non-Spinning Reserve Cap needs to be a valid number	Not a proper number
Certified for RUC	Certified for RUC needs to be 'Y' or 'N'	Invalid value presented
RA Resource	RA Resource needs to be 'Y' or 'N'	Invalid value presented
MOO Flag	MOO Resource needs to be 'Y' or 'N'	Invalid value presented
RA Capacity	Resource Adequacy Capacity needs to be a valid number	Not a proper number

MOO Qualified	Must Offer Obligation Qualified needs to be 'Y', 'N',	Invalid value presented
Wheeling Ref Number	Wheeling Reference Number > 32 characters	More than 32 chars are present