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California Independent System Operator

Table of Contents

1.	INTRODUCTION	1
1.1.	Purpose	1
1.2.	Scope	1
1.3.	Definitions	1
2.	AUTOLOAD .CSV COLUMN CRITERION	4
2.1.	Column Validations	5
2.2.	Change Request Reasons	7
2.3.	Equipment Type	7
2.4.	Rating Types	9
2.5.	AutoLoad Error Messages	9
3.	AUTOLOAD CHANGE REQUESTS	11
3.1.	Prepare the .csv File Using the AutoLoader Export	11
3.2.	Prepare the .csv File Using the Template	15
3.3.	Access the AutoLoader Tool	16
3.4.	Upload Records	17
3.5.	Resubmit AutoLoad Files	19
4.	REVISION HISTORY	19

1. Introduction

The Transmission Register (TR) is a secure Web-enabled database environment that discloses for each transmission line and associated facility the following information:

- Identity of the PTO responsible for operation and maintenance and its owners (if other than the PTO).
- Dates the CAISO assumed or relinquished Operational Control.
- Date of any change in the PTO responsible for its operation and maintenance, or in the identity of its Owner.
- Transmission equipment's applicable ratings and history.

The TR AutoLoader is a function of TR used by ISO and PTO Administrators to enter bulk Component information. This is done either by modifying the existing data downloaded from TR, or by using a pre-formulated spreadsheet template. Once the modifications are uploaded into TR, these Change Requests are either approved or rejected by the TR Administrator.

Note: Refer to the Transmission Register CAISO & PTO General User Manual for the basic steps to navigate within TR.

1.1. Purpose

The Transmission Register AutoLoad Tool allows an ISO Administrator (Admin) and PTO Admin to expeditiously upload mass Component records into TR using a preformatted Excel .csv template, instead of entering bulk changes one by one into the New Component dialog box. Existing Component records can likewise be downloaded into the .csv format through the TR User Interface search and view functionality, and then modified to upload back into the system.

1.2. Scope

The AutoLoad functionality is limited to both ISO and PTO Administrators. The PTO Admin can submit Component information for new Components and/or the modification or retirement of existing Components, however the Component must belong to (be maintained by) the same Organization for which the PTO Admin represents.

1.3. Definitions

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

Object	Definition
Component	A single piece or grouping of electrical transmission equipment embedded within the Grid System. Attributes that define a Component include the Organization, Owner, Description, Station, Voltages, Ratings, and ISO or Non-ISO.
Dynamic	A TR search type that allows the user to select a value as search criteria, and the values of other search criteria are dynamically limited to only applicable values based on the selected value. If a user chooses to perform a dynamic search, the dynamic search fields are limited to the following fields, and values must be selected in the order shown as follows: Organization Station High Nominal Voltage Equipment Type
Equipment	Electrical transmission equipment category created to represent a Component, e.g. Circuit Breaker, Transformer, Leg, Transmission Line Segment, etc.
ISO Equipment	Represents Components turned over to the ISO for their Operational Control.
Nominal Voltage	Represents the voltage class at which an Organization has decided is the utility industry-wide standard value used to classify a range of voltages it actually operates its Components by, e.g., 220 or 225 kV Operating Voltages would each fall into the 230 kV voltage class.
NULL	Empty or none.
OID	Organization Identification number.
Operating Voltage	Represents the voltage at which an Organization operates their Components for a specific Nominal Voltage of the Organization.
Organization	A utility entity that either performs the maintenance on and/or physically operates the Components listed under its name.
Owner	A utility entity that has an ownership percentage of or entitlements to the Components listed under its name.
РТО	Participating Transmission Owner.
Rating Note	An Organization specific note providing additional rating limit detail needed by the operator when operating the Component.

Object	Definition
Rating Type	All rated Components have at least four rating types that represent Summer Normal, Summer Emergency, Winter Normal, and Winter Emergency ratings and are used to populate the Detailed Network Model (MVA1, MVA2, MVA3, and MVA4). Additional rating types may be added by the Organization, which represents special emergency or planning conditions. Within each rating type is an AMP and/or MVA/MVAR value that provides the user the electrical limits a Component can be operated at or planned for while under normal or emergency conditions.
Static	A TR search type, which allows the user to openly select or enter values as search criteria, and then submit all values at once for searching.
Station Name	Organization specific substation/switching Station full name or a special category [Transmission Line] reserved to be the umbrella for all Organization specific transmission circuits and their associated equipment types.
Transmission Facilities	All equipment and Components transferred to the ISO for Operational Control, pursuant to the Transmission Control Agreement, such as overhead and underground transmission lines, Stations, and associated facilities.

2. AutoLoad .csv Column Criterion

To successfully upload a group of equipment changes, certain criteria or business rules must be accurately followed. The AutoLoad spreadsheet consists of two sections, the main Component section (the first sixteen columns of the AutoLoad spreadsheet shown in Figure 1, and the Rating section (the remaining columns that open with Rating Type and close with Note #--- these five column segments can be repeated numerous times). A Component can have many ratings; thus, the number of columns in the spreadsheet is dynamic and not necessarily filled out the same way for each row.

The ensuing subsections offer the upload requirements for the AutoLoader to correctly accept modifications. Figure 1 shows a sample portion of an Excel .csv file used to make the bulk changes. As you notice, the top row contains the header information.

Note: Refer to Section 3, which takes the user through the steps to upload bulk changes.

Type of					Station		Compone				Tertiary		ISO		Additional	Line	Rating	High	Low		
Change	Change Request Reason	0 ID	Org	Owner	Name	De scrip tio n	nt Type	High	K۷	Low KV	KV	Length	Control	Units	Information	Number	Туре	Rating	Rating	Duration	Note #
	New GRID Asset (Facility																				
	Previously non-Existing																				
create	Until New Construction)		PLUD	PLUD	AMADO R	BSCB 1	BSCB		230				Υ	AMPS							
	Revised Ratings																				
	(Equipment Physically																				
update	Unchanged)	95668	PLUD	PLUD	AMADO R	NO RTH	BUS		70				Υ	AMPS			WE (C)	2900		(1
	Other (Causes not																				
retire	covered in above listing)	95669	PLUD	PLUD	AMADO R	SOUTH	BUS		69				Υ	AMPS							
	New GRID Asset (Facility																				
	Previously non-Existing																				
	Until New Construction)		PLUD	PLUD	AMADO R	NEW 1	FUSE		69				Υ	AMPS							

Figure 1. AutoLoader Export Sample File

2.1. Column Validations

In the basic .csv spreadsheet, there are forty (40) header columns, but as mentioned previously, further column headers can be repeated. "Rating Type" through "Note #" can be copied and pasted up to each Organization's authorized amount:

 Type of Change Change Request Reason Effective Date OID Org Owner Station Name Component Description Component Type High kV Low kV Tertiary kV Length Iso Control Units 	16. Additional Information 17. Line Number 18. Rating Type 19. High Rating 20. Low Rating 21. Duration 22. Note # 23. Rating Type 24. High Rating 25. Low Rating 26. Duration 27. Note # 28. Rating Type 29. High Rating	30. Low Rating 31. Duration 32. Note # 33. Rating Type 34. High Rating 35. Low Rating 36. Duration 37. Note # 38. Rating Type 39. High Rating 40. Low Rating 41. Duration 42. Note #
---	--	--

Table 1 below shows the Header Description, whether an entry is a requirement or optional, and the Business Rules associated with that column.

Header Description	Optional or Required	Business Rules	
Type of Change	Required	Must be 'Create', 'Update', or 'Retire'.	
Change Request Reason	Required	Must be typed exactly as demonstrated in column 1 of Table 2, which includes replicating any uppercase and lowercase letters, and spaces.	
Effective Date	Optional	This column is used to identify a Future in service date. It is only required when the Change Request Reason is identified as Future Facility not yet in Service.	
OID Optional		This is a valid Organization Identification number that must be included for 'Update' and 'Retire', and excluded for 'Create'.	
Org	Required	A Component must be maintained by a valid and active Organization.	
Owner	Required	Must be the valid Short Name for the user's Organization, e.g., 'ISO' representing 'California Independent System Operator'.	

Station Name	Required	Must be a valid and active Station.
Component	Required	This is free-text for the user, which can include up to
Description		ninety-six (96) characters.
Component	Required	Must use a Component Short Name taken from Table 3.
Type		
High kV	Required	Must be an Organizationally approved voltage.
Low kV	Optional	Must be less than the High kV and an
		Organizationally approved voltage.
Tertiary kV	Optional	Must be less than the Low kV and an
		Organizationally approved voltage.
Length	Optional	Length is allowed for the following equipment types
		(refer to Table 3) and can be a number between 0.100
		and 9999.900:
		CABLE
		• COND
		• TL
		• TLS
ISO Control	Required	Must be 'Y' for yes and 'N' for no.
Units	Required	Must be one of the following Rating Units:
		AMPS
		• MVA
		MVAR
Additional	Optional	Free-text optionally added by the user, which can
Information		include up to 256 characters.
Rating Type	Required	Can include the Short Names from Table 4, or Rating Types
		specific to the user's Organization.
High Rating	Required	Must be a number between 0.1 - 999,999.9.
Low Rating	Optional	Must be MVAR, less than the High Rating, and a
		number between - 999,999.9 - 999,999.9
Duration	Optional	The amount of time a Component can sustain the high
		rating, should be in hours.
Note #	Optional	Must be a valid, active Note Number specific to the user's
		Organization.

Table 1. Spreadsheet Column Validations

2.2. Change Request Reasons

Table 2 defines the Type of Change and the Change Request Reason in columns 1 and 2 of Figure 1. Change Request Reasons must be typed exactly as shown in the first column of Table 2.

Change Request Reason (used for AutoLoad file)		Type of Change Designation
Change Facility from/to Non ISO Facility	Change a Transmission Facility in TR that either transitioned into or out of CAISO's Operational Control.	Update, Retire
Convert Rating Unit Type	Correct a miss-entered unit type, i.e., AMPS, MVA, or MVAR.	Update
Corrected a Data Input Error	Correct an existing record in TR that contains misinformation.	Update
Facility Added (Facility Previously Existing but Not in Registry)	Add a Transmission Facility not currently logged into TR that has been and still is a part of the Grid.	Create
Facility Description Changed (Physically Unchanged)	Modify the TR Component description of an existing Transmission Facility.	Update
Future Facility / Not Yet In Service	Log a Transmission Facility into TR planned for future service. A column identifying the in service date must be added in the 3 rd column location if this is selected.	Create
Historical change, original reason unknown	Reason given to historical TR changes that did not have an identified Change Request Reason. <i>Historical only,</i> this Change Request Reason is no longer available for use.	Update, Retire
New GRID Asset (Facility Previously Non-Existing Until New Construction)	Log a previously non-existent Transmission Facility into TR.	Create
Other (Causes not covered in above listing)	Use to cover any aspect not mentioned in the other Change Request Reasons.	Create, Retire, Update
Rating Repetition (Removed emergency ratings identical to normal ratings)	Remove emergency ratings identical to the normal ratings. <i>Historical only</i> , this Change Request Reason is no longer available for use.	Update
Replaced Existing Equipment	Use when an existing Transmission Facility is replaced.	Update
Retired Duplicate Facility Entry	Use to correct a second entry of a Transmission Facility improperly entered.	Update
Revised Ratings (Equipment Physically Unchanged)	Log modified ratings of an existing, reevaluated Transmission Facility.	Update
Transmission Line/Facility Reconfigured (Physically Changed)	Enter reconfigurations of existing Transmission Facilities after physical modifications are installed.	Update, Retire

Table 2. Change Request Reasons

2.3. Equipment Type

Table 3 defines Equipment Types and their voltage capture requirement. A Component cannot be created (added) if it has the same Equipment Type, Station, Maintenance Organization, High kV, and Description as an active Component. As shown in the first column, TR uses the Short Name for the equipment designation.

Short Name	Definition	High Voltage Capture	Low Voltage Capture	Tertiary Voltage Capture	Rating Units	Length
BSCB	Bus Sectionalizing Circuit Breaker	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
BUS	Bus	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
CABLE	Underground Cable	Required	Not Allowed	Not Allowed	AMPS	Optional
CAP	Shunt Capacitor	Required	Not Allowed	Not Allowed	MVAR	Not Allowed
СВ	Circuit Breaker	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
COND	Conductor	Required	Not Allowed	Not Allowed	AMPS	Optional
CSW	Circuit Switcher	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
СТ	Current Transformer	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
DISC	Disconnect Switch	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
FUSE	Fuse	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
LEG	Typically consists of a CB, DISCs, and COND at a CB position inside a Station.	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
MOD	Motor Operated Disconnect Switch	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
RCT	Shunt Reactor	Required	Not Allowed	Not Allowed	MVAR	Not Allowed
REG	Regulator	Required	Not Allowed	Not Allowed	MVA	Not Allowed
RLY	Relay	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
SCAP	Series Capacitor	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
SCND	Synchronous Condenser	Required	Not Allowed	Not Allowed	MVAR	Not Allowed
SRCT	Series Reactor	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
SVC	Static VAR Compensator	Required	Not Allowed	Not Allowed	MVAR	Not Allowed
TERM	Represents one terminus of a transmission line typically consisting of a LEG(s) and line drop CONDs.	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
TL	Transmission Line	Required	Optional	Not Allowed	AMPS	Optional
TLS	Transmission Line Section	Required	Not Allowed	Not Allowed	AMPS	Optional
TRCT	Tertiary Reactor	Required	Not Allowed	Not Allowed	MVAR	Not Allowed
WTRP	Wave Trap	Required	Not Allowed	Not Allowed	AMPS	Not Allowed
XFMR	Transformer	Required	Require d	Optional	MVA	Not Allowed
XFMR BANK	Transformer Bank	Required	Require d	Optional	MVA	Not Allowed
XFMR BANK	Transformer Bay	Required	Require d	Optional	MVA	Not Allowed

Table 3. AutoLoad Equipment Requirements

2.4. Rating Types

Table 3 defines the seasonal rating types used to designate special voltages to compensate for different weather conditions. An Organization may likewise designate proprietary rating type's specific to their business.

Short Name	Full Name	Description
SN (N)	Summer Normal	Summer Normal (April - October): Summer loading limit under typical normal continuous operating conditions.
SE (A)	Summer Emergency	Summer Emergency (April - October) Summer emergency loading limit.
WN (B)	Winter Normal	Winter Normal (November - March): Winter loading limit under typical normal continuous operating conditions.
WE (C)	Winter Emergency	Winter Emergency (November - March): Winter emergency loading limit.

Table 4. Seasonal Rating Types

2.5. AutoLoad Error Messages

When uploading bulk equipment changes, the AutoLoad tool validates each column of the .csv spreadsheet. However, to minimize processing time, only the first ten (10) error messages per row are displayed. When Download Errors is selected, a spreadsheet format loads comprised of only the rows with errors. This .csv file is used to correct errors in each row, and then the corrected rows are re-uploaded when complete.

Warning: If there are more than ten (10) errors, additional messages appear on the next upload.

Table 5 offers a sample of error messages that a user may receive following an upload, along with a possible solution.

Error Description	Troubleshooting
Cannot Update. Current Active	There is no Component ID history for this update, either the ID is typed
Component is not found	incorrectly, or it has never been previously logged into TR.
Component already has an Open	AutoLoader does not allow duplicate transactions for the same
	Component ID.
Component ID cannot be null for Update	Ensure the Component ID is included for all "Updates" and "Retires".
or Retire change requests	"Create" is the only Type of Change that requires a null OID.
Duplicate Component	AutoLoader does not allow duplicate transactions for the same Component ID.
Equipment Type cannot be modified	Associated Organization does not allow modifications to this Equipment Type.
High KV: 500 is not valid for Org ID:	Associated Organization has restrictions on voltage magnitude.
High Voltage: < 0 is invalid value	Voltage cannot be less than zero (0).
Component Description is Null	The user must include the Change Request Reason along with the Type of Change (refer to Table 2).
Invalid Component Type	Check the spelling of the equipment short name.
Invalid Station name	Check the spelling.
Low kV: is not valid for Org.	Associated Organization has parameters on low voltage ratings.
Low MVAR is required	Low MVAR ratings should be included for the Equipment Types of
·	SCND and SVC (for equipment definitions, refer to Table 3).
Low Rating must be < High Rating	Low Rating must be less than the High Rating.
Low Voltage is required	A Low Voltage rating is required for Equipment Types XFMR, XFMR BANK, and XFMR BAY (for equipment definitions, refer to Table 3).
Low Voltage not allowed for this equipment	Reference Table 1 the Equipment Type Low Voltage designations.
Missing/incorrect Effective Date	This error only appears if Change Request Reason is specified as
	Future Facility/Not yet in Service and the user has not included a
	column for Effective Date or the Effective Date is not valid.
Rating Type invalid is not valid for Org	This includes both seasonal rating types (refer to Table 4) and/or Organization specific rating types.
Tertiary KV: not valid for Org	An Organization may require specific Tertiary kV ratings.
Units must be specified	Rating Units must be specified as AMPS, MVA, or MVAR (refer to Table 3).
	Only a PTO Admin or ISO Admin can modify Components or
retire this Component	equipment.
Rating Type C is not valid for Org ID 4	Rating Types beyond the basic SN, SE, WN, and WE are proprietary to certain Organizations. In this case, the Rating Type C is not connected with this Organization ID.
Multiple required ratings are missing	Enter all required ratings for this equipment type.

Table 5. AutoLoad Error Messages

3. AutoLoad Change Requests

As mentioned in the Section 1 Purpose, there are two ways to create an Excel .csv file to make Change Requests. The first is to use the AutoLoader Export feature described in Section 3.1, and the second is to use a pre-designed template detailed in Section 3.2. In both cases, additional columns can be pasted in segments of five to add rating information into all or a portion of the following attributes:

- Rating Type
- High Rating
- Low Rating
- Duration
- Note #

3.1. Prepare the .csv File Using the AutoLoader Export



Figure 2. TR Components Homepage

To download Search Results into a .csv file, take the following steps:

- 1) Select the Components file folder in the TR application.
- 2) Click on the Find Components hyperlink and the screen in Figure 3 appears.

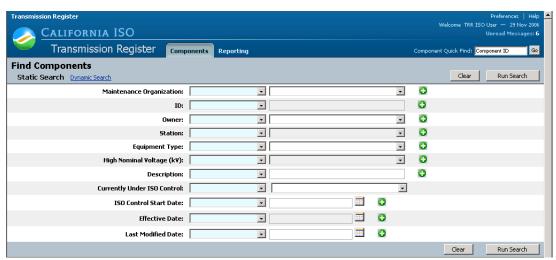


Figure 3. Static Search Screen

The Search Type window provides the user with the ability to conduct the search using either a Static Search or a Dynamic Search. As shown in Figure 3, the application automatically defaults to the Static Search screen.

- If a Dynamic Search is desired, then select the Dynamic Search hyperlink and proceed to Section 3.1.2.
- If a Static Search is desired, then proceed to Section 3.1.1.

3.1.1. Static Search

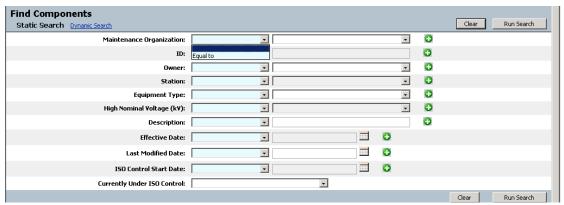


Figure 4. Static Search Window

The Static Search allows a user to select any or all the criteria for a search, but be aware that the fewer the search selections, the larger the results and time to download. The user can likewise select a specific parameter in the left-hand column; however, the search automatically defaults to "Equal to".

Note: Users can view only information that is relevant to their Organization.

1) Select the Maintenance Organization from the right column drop - down menu.

Tip: Since the system defaults to "Equal to", the user is not required to make a left-hand column parameter selection if "Equal to" is the preference (refer to Figure 4).

- 2) Enter the Component ID in the second row of the right column and select the left-hand column parameter from one of the following:
 - Equal to- searches the exact ID number (the default choice)
 - Contains- searches using a partial ID number
 - Starts with- searches using the first few digits of an ID number
- 3) Select the Owner (this drop-down window displays the same criteria as in Organization).
- 4) Select the Station name.
- 5) Select the Equipment Type.

Note: This window offers all equipment types, which may or may not be related to the Organization or Owner.

- 6) Select the High Nominal Voltage (kV), and select one of the following column parameters:
 - Equal to (the default choice)
 - Not Equal to
 - Greater than
 - Greater than or equal
 - Less than
 - Less than or equal

Note: Static Search offers all voltages, which may or may not be related to the Organization or Owner.

- 7) Type in the Description and select one the left-hand column parameters of:
 - Equal to (the default choice)
 - Contains
 - Starts with
- 8) Type in the Effective Date,

OR

- 9) Select the Effective Date by clicking on the date icon and a calendar displays.
 - i. Click the desired day of the month and the calendar automatically closes.
 - ii. Select the left-hand column parameters for the Effective Date.
- 10) Select the Last Modified Date and parameters using the previous method.
- 11) Select the ISO Control Start Date and parameters in the same manner.
- 12) Choose either "Yes" or "No" from the Currently Under ISO Control drop-down window.
- 13) Click the Run Search button and the screen in Figure 5 loads.



Figure 5. Search Results Screen

To now export the results into an Excel .csv AutoLoader spreadsheet:

14) Click the <u>Autoloader Export</u> hyperlink, which exports the Search Results into an Excel .csv format, demonstrated in Figure 6.

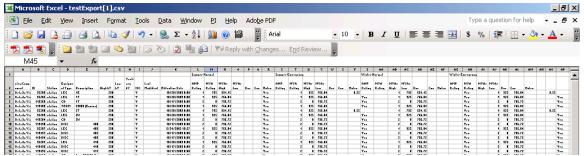


Figure 6. Sample AutoLoader Spreadsheet

The user may now:

- 15) Make the appropriate modifications to the worksheet (refer to Section 2 for the column criterion).
- 16) Delete those rows unchanged (unchanged rows that remain in the spreadsheet derive "Duplicate Component" error messages)
- 17) Save it to your personal drive.

Warning: The column format MUST remain as downloaded and saved to drive as a .csv file. However, additional columns can be pasted in segments of five to add rating information into all or a portion of the following attributes:

- Rating Type
- High Rating
- Low Rating
- Duration
- Note #

3.1.2. Dynamic Search



Figure 7. Dynamic Search Window

The TR Dynamic Search (see Figure 7) offers fewer criteria, but the user can choose to just select the Organization, or drill down to specific Component details. As in the Static Search, the Dynamic Search also allows a user to select **any** or **all** the criteria for a search, but be aware that the fewer the search selections, the larger the results and time to download.

Note: The screen refreshes after selecting Organization, as in each subsequent selection, with the related Station, voltage, and equipment type, and users can view only information that is relevant to their Organization.

14 CAISO PUBLIC

- 1) Select the Organization name from the dropdown window. The Station then populates with only Stations that have active Components for that Org.
- 2) Select the Station from the dropdown window. The high nominal voltage then populates based on the high nominal voltage values of the Components associated with that Station and Organization.
- 3) Select the High Nominal Voltage (kV) from the dropdown window. The equipment type then populates based on the previous entries.
- 4) Select the Equipment Type from the dropdown window.
- 5) Press the Run Search button and the screen shown in Figure 5 loads.
- 6) Click the <u>Autoloader Export</u> hyperlink, which exports the Search Results into an Excel .csv format, demonstrated in Figure 6.

The user may now:

- 7) Make the appropriate modifications to the worksheet (refer to Section 2 for the column criterion).
- 8) Delete those rows unchanged (static rows that remain in the spreadsheet derive "Duplicate Component" error messages)
- 9) Save it to your personal drive

Warning: The column format MUST remain as downloaded and saved to drive as a .csv file. However, additional columns can be pasted in segments of five to add rating information into all or a portion of the following attributes: Rating Type, High Rating, Low Rating, Duration, and Note #.

3.2. Prepare the .csv File Using the Template

The second method is more comprehensive since it requires the user to fill in the details of the Organization along with any changes. To create your own AutoLoad file:

1) Click the icon to open the AutoLoader template.



U:\Transmission Register\AutoLoader_

Warning: Sample entries are pre-loaded into the spreadsheet as a model only and must be removed before proceeding.

- 2) Make the appropriate modifications to the worksheet (refer to Section 2 for the column criterion).
- 3) Save it to your personal drive.

Warning: the column format MUST remain as downloaded and saved to drive as a .csv file. However, additional columns can be pasted in segments of five to add rating information into all or a portion of the following attributes:

- Rating Type
- High Rating
- Low Rating

- Duration
- Note #
- Effective Date (this column must be added if Future Facilities/ Not yet in service are identified in the Autoloader to be uploaded)

3.3. Access the AutoLoader Tool

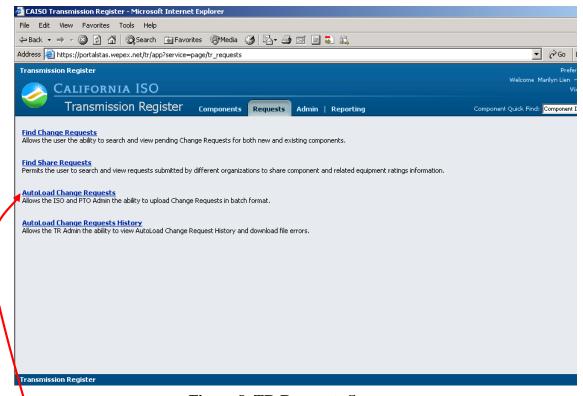


Figure 8. TR Requests Screen

this is where the Change Request upload begins. Once the TR is loaded on your system, take the following steps:

- 1) Select the Requests folder tab shown in Figure 8.
- ¹2) Click on <u>AutoLoad Change Requests</u> and the screen in Figure 9 appears

3.4. Upload Records

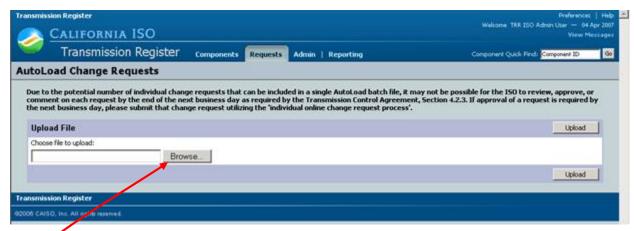


Figure 9. AutoLoad Change Requests

The "Choose file to upload" segment is the easiest part of the AutoLoader process. To search for your saved file:

- 1) Press the Browse button and the file manager shown in Figure 10 appears.
- 2) Select the drive location of the saved .csv file.
- 3) Select the Excel .csv file

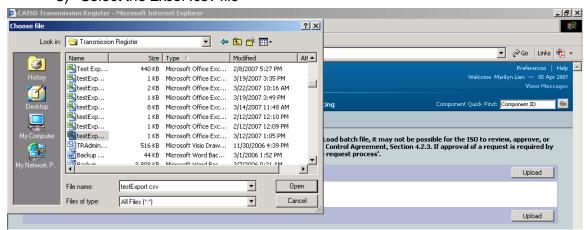


Figure 10. "Browse" File Manager

- 4) Press the Open button and the file populates the Browse File name bar.
- 5) Press the Upload button and the AutoLoad Change Requests History screen loads, as demonstrated in Figure 11.

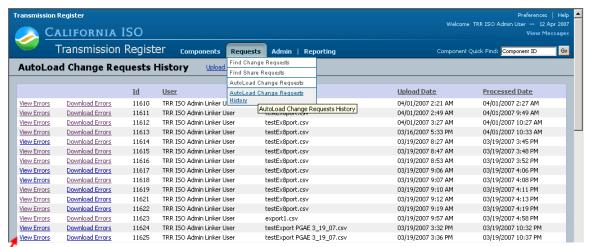


Figure 11. AutoLoad Change Requests History

The user can scroll to the bottom of the page; however the Processed Date will not populate until the AutoLoad time parameter for processing Change Requests is met. These AutoLoad files are queued in order of submission, and once the file is processed, the user receives an email of completion that includes a hyperlink to the site shown in Figure 11. At this stage, complete the following steps:

- 1) Click the <u>View Errors</u> hyperlink, which gives the details of what failed during submission, and the AutoLoad Errors screen appears.
- 2) If the upload is successful, then the screen in Figure 14 displays and no further steps are required.
- 3) If the upload contains errors, then the screen in Figure 12 displays and then the user needs to proceed to the next step.

The user may now press the Ctrl button while simultaneously pressing the P key to print out the results to use as a reference to correct the spreadsheet failures.

4) Press the Back button to return to the AutoLoad Change Request History page.



Figure 12. AutoLoad Errors

5) Click the <u>Download Errors</u> hyperlink shown in Figure 11 and a .csv spreadsheet loads to show those Components that failed validation. Refer to the abridged sample in Figure 13.

Tip: The <u>Download Errors</u> utility downloads only those Components that failed validation (successfully submitted Components do not show); this function avoids having those lines with no failures from being re-uploaded, which in turn produces "Duplicate Component" failures in the next upload.



Figure 13. Download Errors Sample Spreadsheet

3.5. Resubmit AutoLoad Files

With the spreadsheet shown in Figure 13, the user can examine and correct just the lines with failed Components, and then resubmit them into TR. Notice that the yellow highlighted Change Request Reason is mistakenly typed as *Other (Causes not covered)*, and should be typed as *Other (Causes not covered in above listing)* [for the exact letter formation regarding Change Request Reasons, refer to Table 2 of Section 2.2.].

Using the reference tables from Section 2, correct any errors in the spreadsheet. Once corrected and saved, it can now be re-uploaded into TR. **Use** the same steps in Section 3.4. to resubmit corrected lines in your spreadsheet.

Tip: Using a unique file name for each saved file reduces repeat errors and maintains historical tracking.

Once an upload is successful, the screen in Figure 14 appears.

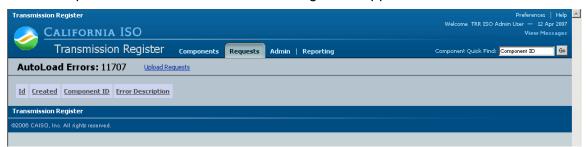


Figure 14. Successful Upload Screen

4. Revision History

Version	Activity	Ву	Date
1.0	Draft	Marilyn Lien	4/12/07
2.0	Update to add Future in service date if the	Scott Vaughan	3/05/17
	appropriate cause is selected		
3.0	Updated ISO Logo and format	Chris Hillman	8/13/2021