

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

MIDAS Portal Training

October 2021

RELIABILITY | RESILIENCE | SECURITY



- Introduction
 - Who, what, when
- Training Topics:
 - ERO Portal
 - Creating Account
 - Requesting Access to MIDAS Reporting Application
 - Entity Administrator Roles
 - Approving/Rejecting Application Requests
 - Section 1600 Reporting Confirmation
 - Reporting Process
 - Manual Entry
 - Bulk Submissions
 - Viewing/Downloading MIDAS Reports
 - Submission Status Report
 - Misoperation Rate Report



Introduction

- Understand how the MIDAS data collection requirement was established
- Who must report?
- What is reported?
- Reporting Deadlines

- The Protection System Misoperations Standard Drafting Team removed the data reporting obligation included in Reliability Standard PRC-004-2.1a4 from the revised standard and recommended that NERC request the data required for performance analysis purposes pursuant to Section 1600 of the NERC Rules of Procedure.
- MIDAS Reporting to NERC began in July 2016 and the MIDAS Portal was developed in October 2017.

- Transmission Owners (TO), Generator Owners (GO) and Distribution Providers (DP) must provide information and data as indicated in the data request
 - Registered entities without MIDAS equipment are required to confirm annually via the MIDAS Section 1600 Reporting Confirmation
- Newly commissioned equipment and facilities should be reported on once released for service for transmission equipment and on their commercial date for generation.
- If equipment is determined to be BES after having already been placed in service reporting should begin upon determination.
- The MIDAS data request applies to only U.S. registered entities
 - Registered entities in other NERC jurisdictions including Canada are encouraged to participate in order to obtain relevant MIDAS data for the North American Bulk-Power System.

- BES Composite Protection System Operation Summary Data – Required quarterly when reportable BES Composite Protection System Operations occur, aggregated by facility voltage.
- BES Misoperation Data – Required quarterly when reportable BES Misoperations occur, as detailed by the Section 1600 data request.
 - This includes Composite Protection Systems on all BES registered Elements, including those in non-BES configurations.
- Opt-Out Waiver – Required quarterly in cases where no Protection System Operations or Misoperations have occurred.

- Data shall be submitted quarterly to NERC through the MIDAS Portal within 60 days after the end of each calendar quarter.



- Deadlines are:
 - May 30th for Quarter 1, January 1st – March 31st
 - August 29th for Quarter 2, April 1st – June 30th
 - November 29th for Quarter 3, July 1st – September 30th
 - March 1st of the following year for Quarter 4, October 1st – December 31st

- NERC’s MIDAS Data web page has instructions and links
- Data Reporting Instruction (DRI) has been developed by NERC with MIDASUG support
 - Assists NERC and reporting entities in fulfilling the MIDAS Data Request reporting requirements
 - Specifies processes, formats, and timelines for data collection

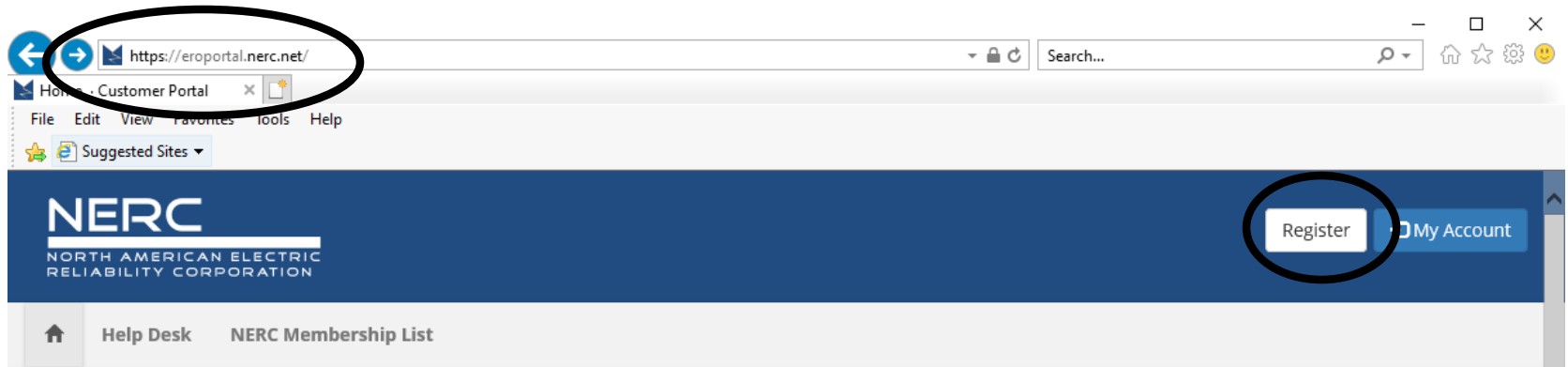
The screenshot shows the NERC website navigation menu with the following items: About NERC, Governance, Committees, Program Areas & Departments, Standards, and Initiatives. Under 'Program Areas & Departments', the following sub-items are listed: Compliance & Enforcement, Organization Registration and Certification, Standards, Electricity ISAC, Reliability Assessment & Performance Analysis (highlighted), Reliability Risk Management, and System Operator Certification & Credential Maintenance Program. Below the menu, the 'Misoperation Information Data Analysis System' page is displayed, featuring the title 'Misoperation Information Data Analysis System', the subtitle 'Data Reporting Instructions', and the effective date 'Effective: January 1, 2021'. The page footer includes the NERC logo and contact information: 3353 Peachtree Road NE, Suite 600, North Tower, Atlanta, GA 30326, 404-446-2500 | www.nerc.com.

<https://www.nerc.com/pa/RAPA/Pages/Misoperations.aspx>



ERO Portal: Creating an Account

<https://eroportal.nerc.net/>



Welcome to the ERO Portal

The ERO Portal allows new users to register for an account and perform the following functions upon completion:



SELF SERVICE ACCOUNT

Change Password, Update Security
Questions



VIEW MAILING LISTS & RESOURCES

Access to Datastores and
Applications



REQUEST ACCESS

Get Access to Resources

*An ERO Portal account is required to access the MIDAS reporting application

Register for a new account

1

* First Name

* Last Name

* Email

* Confirm Email

* Username

* Password

- Minimum of 10 characters long.
- Must Contain at least 1 number, 1 lowercase letter, 1 uppercase letter, and 1 special character (!,@,#,\$,%,^,&,*)

* Confirm Password

* Captcha

2

Confirm Registration

You will receive an email shortly with instructions on how to complete the registration process.

If you do not receive an email, please click [here](#) to resend.

If the problem continues, please contact the NERC Helpdesk by opening a ticket at: [NERC Helpdesk](#).

3

Thanks so much for registering for access to the ERO Portal. To continue with your registration, you just need to confirm that we got your email right.

[Confirm Your Email](#)

Link not working? Try pasting this link into your browser:

4

Email Confirmation

Your email address was successfully confirmed. Please click 'Continue' to complete your registration!

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For security reasons, we require additional information to verify your account

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[What is this?](#) [Need help?](#)

Protect Your NERC - External Clients Account

Two-factor authentication enhances the security of your account by using a secondary device to verify your identity. This prevents anyone but you from accessing your account, even if they know your password.

This process will help you set up your account with this added layer of security.

Start setup

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Choose an authentication method

Send Me a Push

Call Me

Enter a Passcode

Remember me for 10 hours

Enrollment successful! This is the Duo login prompt that you'll normally see when logging in. X

[What is this?](#) [Add a new device](#) [My Settings & Devices](#) [Need help?](#)

Personal

Salutation	First Name *
<input type="text"/>	<input type="text" value="MIDAS"/>
Job Title	Middle Name
<input type="text"/>	<input type="text"/>
Business Phone *	Last Name *
<input type="text" value="770-777-7777"/>	<input type="text" value="Example User"/>
Fax	Mobile Phone
<input type="text"/>	<input type="text"/>

My Work Address

Street 1 *	City *
<input type="text" value="3353 Peachtree Road"/>	<input type="text" value="Atlanta"/>
Street 2	State/Province *
<input type="text"/>	<input type="text" value="Georgia"/>
	ZIP/Postal Code *
	<input type="text" value="30326"/>
	Country *
	<input type="text" value="USA"/>

Company

Company

Did you find your company?

No Yes

Security

Security Question 1 *

Security Answer 1 *

Security Question 2 *

Security Answer 2 *



**ERO Portal – Entity Admins Only:
Section 1600 Reporting Confirmation**

My Entity

Manage Entity User Permissions

This is the landing page for the Entity Administrator to manage the permissions of all users associated with his entity. From this page, the Entity Administrator can associate new users to his entity, add or remove permissions for users to access applications such as: MIDAS, CORES, Align, or give other users the ability to perform the Entity Administrator function.

CORES

The Centralized Organization Registration ERO System (CORES) is a new application that integrates OATI - webCDMS, Guidance - CITS and CRATS into a single, consolidated system. The system includes:

- A consistent Regional Entity and Registered Entity process
- More control of the future of the registration system
- The ability to capture additional data elements for Coordinated Overlap (MRREs)
- The ability to entities to manage their JROs, CFRs and other registrations
- The ability to capture data elements that need to be integrated with other systems

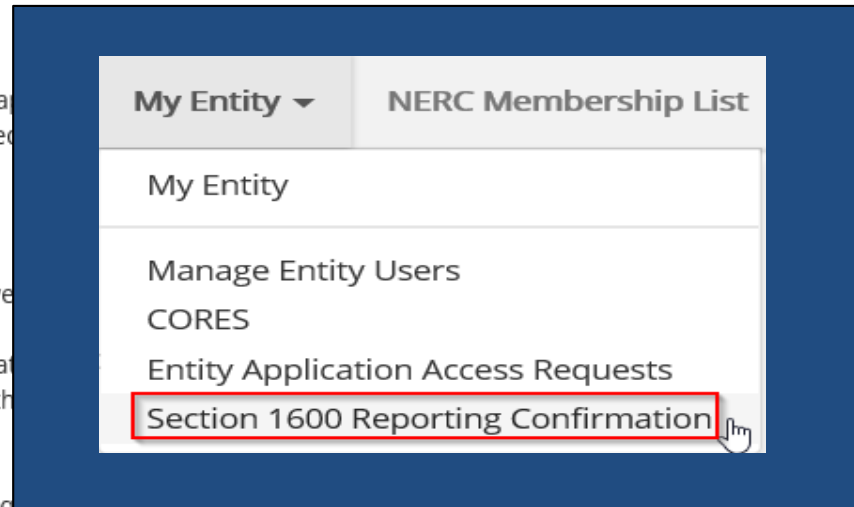
Entity Application Access Requests

This is the landing page for the Entity Administrator to manage access requests to applications such as MIDAS, CORES and Align. The Entity Administrator will see a list of requests not yet approved that includes the person making the request, the application and role requested and the date of the request. For each request, the Entity Administrator has the option to approve or reject the request.

Section 1600 Reporting Confirmation

The Section 1600 Reporting Confirmation screen lists the data reporting obligations based on the entity's scope(s). An entity scope is defined as the combination of function, region, effective date of registration, regulatory jurisdiction (i.e. country) and inactive date. The Entity Administrator is required to annually confirm whether it meets the reporting criteria for each Section 1600 application listed.

The annual confirmation deadline is January 15; updates may be made to the annual confirmation when an entity's scope(s) changes.



- The Section 1600 Reporting Confirmation view is only available to the Entity Administrator
- Process
 - Annual confirmation required by January 15
 - Description of reporting criteria provided for each application
 - Confirmation requested for each region in which the registered entity has a reporting obligation
 - Entity Administrators will be sent reminder e-mails for the next year's annual confirmation, at the beginning of December
 - If Reporting Confirmation is not completed by Jan. 15, reminder will be sent on Feb. 1

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New Notifications! Rachel Rieder NCR5555 - Testing Company Name Upda...

2021 Annual 1600 Reporting Confirmation Required

My Profile My Resources My Applications Research My Groups Entity Registration Requests **My Entity** NERC Membership List NERC Membership Help Desk

Home / My Entity / Annual Section 1600 Reporting Confirmation

Annual Section 1600 Reporting Confirmation

One or more functions (scopes) assigned to this entity apply to data reporting requirements in accordance with Section 1600 of NERC's Rules of Procedure. For each reporting requirement listed below, indicate whether the entity meets the reporting criteria. For clarification of reporting requirements, please contact your regional entity.

⚠ You have not confirmed your section 1600 reporting for the selected reporting year. Please complete the form below.

Reporting Applications

Reporting Year

Geomagnetic Disturbance (GMD)

Transmission Owners and Generator Owners that have GIC or Magnetometer devices or have GIC or Magnetometer event data for any GMD event occurring on or after May 1, 2013.

Reporting Obligations

Start Date	End Date	Region	Meets Criteria
7/14/2019		RF	<input type="radio"/> Yes <input type="radio"/> No

Misoperations Information Data Analysis System (MIDAS)

Transmission Owners, Generator Owners or Distribution Providers.

Reporting Obligations

Start Date	End Date	Region	Meets Criteria
7/14/2019		RF	<input type="radio"/> Yes <input type="radio"/> No

Annual Section 1600 Reporting Confirmation

One or more functions (scopes) assigned to this entity apply to data reporting requirements in accordance with Section 1600 of NERC's Rules of Procedure. For each reporting requirement listed below, indicate whether the entity meets the reporting criteria. For clarification of reporting requirements, please contact your regional entity.

✔ Your section 1600 reporting obligations have been confirmed for the selected reporting year.

Reporting Applications

Reporting Year

Geomagnetic Disturbance (GMD)

Transmission Owners and Generator Owners that have GIC or Magnetometer devices or have GIC or Magnetometer event data for any GMD event occurring on or after May 1, 2013.

Reporting Obligations

Start Date	End Date	Region	Meets Criteria
7/14/2019		RF	<input checked="" type="radio"/> Yes <input type="radio"/> No

Misoperations Information Data Analysis System (MIDAS)

Transmission Owners, Generator Owners or Distribution Providers.

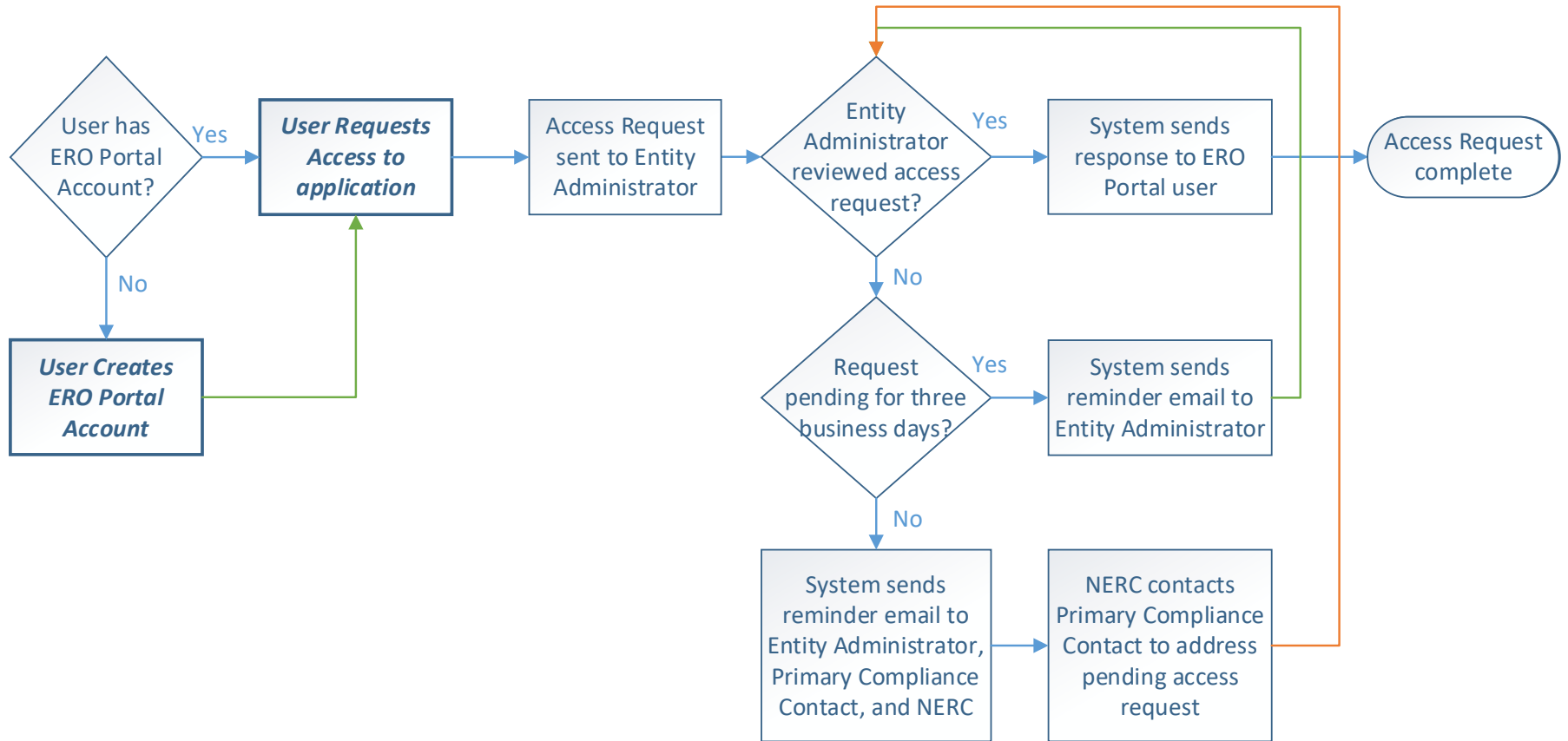
Reporting Obligations

Start Date	End Date	Region	Meets Criteria
7/14/2019		RF	<input type="radio"/> Yes <input checked="" type="radio"/> No

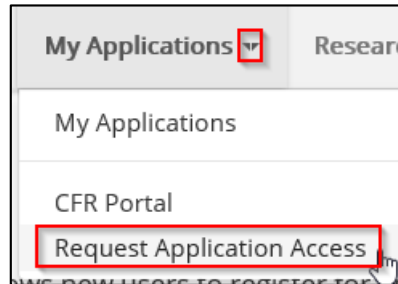
Submit



**ERO Portal:
Requesting Access to MIDAS Reporting**



- A user with an ERO Portal account must request permission to access the MIDAS Reporting application
 - This request is for registered entities who have confirmed that they meet the reporting requirements for MIDAS
- Process:
 - User logs into the ERO Portal
 - User selects “My Applications” > “Request Application Access”
 - User selects “Create New Application Access Request”
 - User indicates the NCR ID of the entity
 - User selects the permissions level:
 - For submitting data: MIDAS User
 - For read-only access: MIDAS Read-Only
 - The request will be sent to the Entity Administrator of the registered entity
 - NERC will not grant a user access to a registered entity’s data, only the Entity Administrator may do so



Application Access Requests

Below is the list of submitted application requests. To request access to an ERO Portal application, please use the link below to submit your access request information. Your request will be submitted to the corresponding entity administrator for approval.

[+ Create New Application Access Request](#)

NERC Number (Entity)	Entity	Requested Application Role	Request Status	Approved By	Rejected By	Created On ↑	Modified On
NCR55555	Testing Company Name Update, LLC	MIDAS User	Pending			3/8/2021 6:42 PM	3/8/2021 6:42 PM

Menu

[Request Application Access](#)

Request access to an ERO Portal application (GMD, CFR Portal or MIDAS)

- Includes option to Create a New Application Access Request and Request Application Access from the menu on this screen

Request Application Access

[Back to Application Access Requests](#)

Request access to an ERO Portal application by using the form below. Here is a list of applications you may request access to:

Application	Role	Role Description
All Applications	Entity Administrator	This person has read and write access to Align data, GMD data, MIDAS data, and CORES data. In addition this person can make others the Entity Administrator and give others access to Align, GMD, MIDAS and CORES or remove access to those system from others.
ALIGN	Align Registered Entity Editor	This person can create and edit items in Align for the Entity he/she is associated with, as well as submit evidence to the SEL.
ALIGN	Align Registered Entity Reader	This person can view items in Align for the Entity he/she is associated with, as well as submit evidence to the SEL.
ALIGN	Align Registered Entity Submitter	This person can create/edit and submit items in Align for the Entity he/she is associated with, as well as submit evidence to the SEL.
CORES	CORES User	This person can create/edit registration information (including CFRs/JROs) and run registration reports for the entity he/she is associated with.
GMD	GMD User	This person can view and submit GMD data and run GMD reports for the entity he/she is associated with.
GMD	GMD Read-Only	This person can view GMD data and run GMD reports for the entity he/she is associated with.
MIDAS Portal	MIDAS User	This person can create/edit and submit MIDAS data and run MIDAS reports for the entity he/she is associated with.
MIDAS Portal	MIDAS Read-Only	This person can view MIDAS data and run MIDAS reports for the entity he/she is associated with.

Entity ■

Requested Application Role ■

Requester Comments



Receipt of Access Request

Dear Rachel Rieder,

This email is to inform you that your application request, as shown below is currently being reviewed and you will be informed via email of the decision.

Name: Rachel Rieder
Email Address: rachel.rieder@nerc.net
Access Request Date: 03/08/2021
Role Requested: MIDAS User
Entity: NCR55555

Request Status: Pending
Comments: None

If you would like to view your access request via the ERO Portal, please click [here](#).

Once you sign on to the ERO Portal, click the drop down arrow to the right of My Applications and choose Request Application Access. After the page loads you will see the pending application requests and you will be able to withdraw this request. If your request does not appear on this page it means the request has been approved or rejected.

Approval e-mail

Dear Rachel Rieder,

Your ERO Portal Application Access Request has been approved.

Role Granted: MIDAS User
Entity: NCR55555
Request Status: Approved
Comments: None

You may access the ERO Portal by clicking [here](#)

Link not working? Try pasting this link into your browser:

<https://eroportal.nerc.net>

My Applications

Below is a list of your currently available applications and assigned roles. You may use the the [application access request form](#) to request access to an application or a new role.

Application Role

- Entity Admin
- Align Registered Entity Editor
- Align Registered Entity Reader
- Align Registered Entity Submitter
- CORES User
- GMD Read-Only
- GMD User
- MIDAS Read-Only
- MIDAS User

Less ▾

NCR ↑	Entity	Application Role	Created On ↑	
NCR55585	Align Integration Test Entity 1	GMD User	9/21/2020 7:31 PM	▾
NCR55585	Align Integration Test Entity 1	MIDAS User	9/21/2020 7:31 PM	▾
NCR44444	Align Integration Test 2	GMD User	9/21/2020 7:28 PM	▾
NCR44444	Align Integration Test 2	MIDAS Read-Only	9/21/2020 7:28 PM	▾
NCR55555	Test Company 2-1	Entity Admin	9/21/2020 3:28 PM	▾

Menu

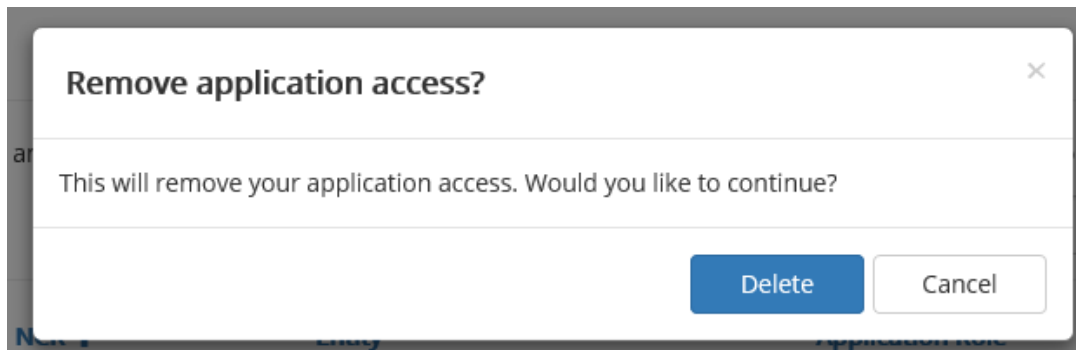
[Application Access Requests](#)

View your past or pending application access requests.

- Displays list of all roles for the user, ability to filter by role type, and menu item to create/check the status of application access requests
- Hyperlink to access request form at the top

Ability for User to Remove Access to Application

NCR ↑	Entity	Application Role	Created On ↑	
NCR55585	Align Integration Test Entity 1	GMD User	9/21/2020 7:31 PM	▼
NCR55585	Align Integration Test Entity 1	MIDAS User	9/21/2020 7:31 PM	▼
NCR44444	Align Integration Test 2	GMD User	9/21/2020 7:28 PM	▼ ✕ Remove Application Access
NCR44444	Align Integration Test 2	MIDAS Read-Only	9/21/2020 7:28 PM	▼
NCR55555	Test Company 2-1	Entity Admin	9/21/2020 3:28 PM	▼



Selecting "Delete" will remove application access

Selecting "Cancel" will not cancel the action and will not remove application access

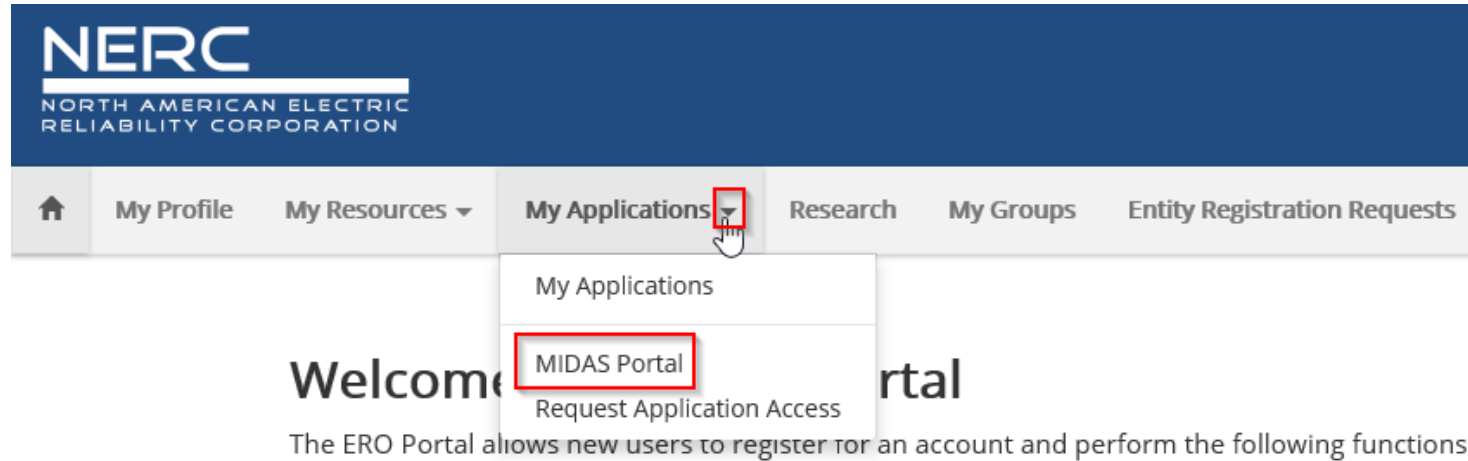
Your application access has been successfully removed. Your changes will take effect after logging out.



The MIDAS Reporting Process

- There are three types of data to be reported :
 - BES Composite Protection System Operation Summary Data – aggregated by facility voltage.
 - BES Misoperation Data
 - Opt-Out Waivers
- Data Reporting Instruction (DRI) chapters describe data fields (format, units, narrative description, etc.) and provide example data

- Reporting deadlines will be displayed in the data collection application and will be posted on the NERC website on the [MIDAS page](#)
- Template for bulk data uploads will be available on the [MIDAS page](#) on nerc.com and in the portal
- Training information will be available on the MIDAS Training page on nerc.com
- MIDAS@nerc.net has been created to allow all MIDAS questions to be routed to the proper NERC staff



The screenshot shows the NERC ERO Portal home page. At the top left is the NERC logo. Below it is a navigation bar with links: Home, My Profile, My Resources, My Applications, Research, My Groups, and Entity Registration Requests. The 'My Applications' link is highlighted with a red box, and a dropdown menu is open, showing 'My Applications' and 'MIDAS Portal' (which is also highlighted with a red box). Below the navigation bar, the text reads 'Welcome to the ERO Portal' and 'The ERO Portal allows new users to register for an account and perform the following functions'.



SELF SERVICE ACCOUNT

Change Password, Update Security Questions

MIDAS Portal

*December 2020: Updated versions of the MIDAS Portal User Guide, MIDAS Data Reporting Instructions and the MIDAS Submission Template have been posted to NERC's website. View these documents by clicking [here](#).

Welcome to the MIDAS portal. Users can submit, view, and manage data reported for misoperations and protection system operations in this portal. Reports provide information on submission status and various statistics that compare an entity's misoperations rate to aggregated regional and NERC-level data.

The user guide for the MIDAS portal can be found [here](#) or on the NERC website by navigating to Program Areas & Departments > Reliability Assessment & Performance Analysis > Protection System Misoperations > MIDAS User Guide for Entities.

For questions on how to report a specific Misoperation, please email your regional contact:

MRO	RF	NPCC
SERC	Texas RE	WECC

For assistance with the functionality of the MIDAS portal please email MIDAS@nerc.net.

MIDAS Reporting Template Updated as of: 12/10/2020

Reporting Periods

Data reporting is required quarterly, within 60 days of the end of a quarter. Deadlines are:

- May 30th for Quarter 1, January 1st - March 31st
- August 29th for Quarter 2, April 1st - June 30th
- November 29th for Quarter 3 - July 1st - September 30th
- March 1st of the following year for Quarter 4 - October 1st - December 31st

Below is a list of entities for which you have permission to view or submit data. If an entity is not listed, go to the [Application Access Requests](#) page to request access.

NCR ↑	Entity Name	Web Role
NCR22222	Test Company 2	Entity Administrator
NCR55555	Test Company 5	MIDAS User

Menu

Bulk Submissions

Bulk import Misoperations, Protection System Operations and Opt-Outs

Misoperations

View, create or manage Misoperations

Protection System Operations

View, create or manage Protection System Operations

Waivers (Opt-Outs)

View, create or manage Opt-Out waivers

MIDAS Reports

View MIDAS Submission Reports



Protection System Operations Reporting

Composite Protection System Operation Field Descriptions		
Field Name	Description	Mandatory or Voluntary
Data Submission Year	The calendar year for which the operation data is reported.	Mandatory
Data Submission Quarter	The calendar quarter for which the operation data is reported.	Mandatory
Regional Entity Name	The entity's RE. If the entity is registered in multiple REs, the primary RE should be selected. It should be noted that this field should align with the selection made when submitting the file.	Mandatory
NERC ID	The entity's NERC compliance registry (NCR) number. This should include the three letters "NCR" and any preceding or following 0's.	Mandatory
Voltage Class	The system voltage of the protected BES Element. If exact voltage is not an available option select closest available option. Use Table G.5 to identify the correct voltage class.	Mandatory
Total CPSOPs [Composite Protection System Operations] Occurred in ([REGION])	The count of composite protection system operations and the Regions in which they occurred.	Mandatory

Protection System Operations

From this page enter individual Protection System Operation records, modify existing Protection System Operation records, or deactivate previously submitted Protection System Operation records.

Region

 MRO
 NCEA
 NERCExternal
 Not Regionally Assigned
 NPCC
 RF
[More ▾](#)

Submission Quarter

▾ ▾

Submission Year

▾ ▾

MIDAS Record ID

▾

Apply

☰ Active Protection System Operations ▾

🔍

+ Create

📄 Export to Excel

MIDAS Record ID	Name ↑	Submission	Entity	Region	Jurisdiction	Submission Quarter	Submission Year	Voltage Class	Operations Count
▾	10004743 2021_Q1_NCR55555_RF_161kV	NCR55555 Q1 2021	Testing Company Name Update, LLC	RF	United States	Qtr 1 (Jan 1 - Mar 31)	2021	161kV	5
▾	10004724 2021_Q1_NCR55555_RF_230kV		Testing Company Name Update, LLC	RF	United States	Qtr 1 (Jan 1 - Mar 31)	2021	230kV	4

Active Protection System Operations ▾

Q Create Export to Excel

MIDAS Record ID	Name ↑	Submission	Entity	Region	Jurisdiction	Submission Quarter	Submission Year	Vc Cl
10004743	2021_Q1_NCR55555_RF_161kV	NCR55555 Q1 2021	Testing Company Name Update, LLC	RF	United States	Qtr 1 (Jan 1 - Mar 31)	2021	16

Home / MIDAS Portal / Protection System Operations / Create New PS Ops

Create New PS Ops

New Protection System Operation Record

Operation Quarter *

Operation Year *

Operations Count *

Voltage Class *

- Click the dropdown arrow on the record and choose “View Details”.

MIDAS			
Record ID	Name ↑	Submission	
▼	10004159	2020_Q4_NCR55555_RF_230kV	NCR55555 Q4 2020
ⓘ View Details		_Q4_NCR55555_RF_345kV	NCR55555 Q4 2020
✎ Edit		_Q4_NCR55555_RF_765kV	NCR55555 Q4 2020
🗑 Delete			

View Details

Protection System Operation Details

Status Reason	Active	Entity *	Testing Company Name Update, LLC
Name *	2020_Q4_NCR55555_RF_230kV	Region *	RF
MIDAS Record ID	10004159	Jurisdiction *	United States
Operation Quarter *	Qtr 4 (Oct 1 - Dec 31)	Voltage Class *	230kV

- Click the dropdown arrow on the record and choose “edit”.
- If a field is unchangeable, then the record will need to be deleted and entered again to change the specified field.

MIDAS		
Record ID	Name ↑	Submission
▼ 10004159	2020_Q4_NCR55555_RF_230kV	NCR55555 Q4 2020
ⓘ View Details	2020_Q4_NCR55555_RF_345kV	NCR55555 Q4 2020
✎ Edit	2020_Q4_NCR55555_RF_765kV	NCR55555 Q4 2020
🗑 Delete		

MIDAS Edit PS Ops

Protection System Operation Details

Name *	Entity *
2020_Q4_NCR55555_RF_230kV	Testing Company Name Update, LLC
MIDAS Record ID	Region *
10004159	RF
Status Reason	Jurisdiction *
Active	United States ▼
Operation Quarter *	Voltage Class *
Qtr 4 (Oct 1 - Dec 31) ▼	230kV ▼
Operation Year *	Operations Count *
2020 ▼	4

- Click the dropdown arrow on the record and choose “delete”.
- View all deleted misoperations by clicking the dropdown next to “Active Misoperations” and choosing “Deleted Misoperations”.
- If a record is accidentally deleted, it will need to be recreated.

MIDAS			
Record ID	Name ↑	Submission	
▼	10004159	2020_Q4_NCR55555_RF_230kV	NCR55555 Q4 2020
		2020_Q4_NCR55555_RF_345kV	NCR55555 Q4 2020
		2020_Q4_NCR55555_RF_765kV	NCR55555 Q4 2020

The screenshot shows the 'Active Protection System Operations' dropdown menu. The 'Deleted Protection System Operations' option is highlighted with a red box and a mouse cursor. Below the menu, a table header is visible with columns: Record ID, Name, Submission, Entity, Region, Jurisdiction, and Quarter. A yellow message box at the bottom states 'There are no records to display.'



Misoperation Reporting

Misoperation Field Descriptions		
Field Name	Description	Mandatory/ Voluntary/Calculated
Misoperation ID	A unique Misoperation identifier. Automatically concatenated	Calculated
Region	The Region in which the Misoperation occurred. Entities reporting for multiple Regions under the same registration (NCR) can submit for all Regions within the same submittal. The selected Region should be based on the geographical location in which the Misoperation occurred.	Mandatory
Entity	The entity's NCR number. Ex: NCR99999	Mandatory
Jurisdiction	The country in which the Misoperation occurred.	Mandatory
Misoperation Date	The date of the Misoperation (MM/DD/YYYY)	Mandatory
Misoperation Time	The time of the Misoperation (24hr format HH:MM:SS) based on the time zone used to record the Misoperation.	Mandatory
Misoperation Time Seconds	The "seconds" portion of the time at which the Misoperation occurred. This field is only separate for entries made through the MIDAS Portal interface.	Mandatory, MIDAS Portal interface submissions only
Time Zone	The time zone in which the Misoperation occurred.	Mandatory
Facility Name	The name of the facility (substation or generating station) where the Misoperation occurred.	Mandatory
Equipment Name	The name of the equipment protected by the Composite Protection System that misoperated.	Mandatory
Equipment Type	The type of equipment being protected.	Mandatory
Facility Voltage	The system voltage of the protected BES element. If exact voltage is not an available option select closest available option.	Mandatory

Misoperation Field Descriptions		
Field Name	Description	Mandatory/ Voluntary/Calculated
Equipment Removed	The names of the equipment becoming permanently or temporarily unavailable due to the Misoperation Equipment refers only to circuits, transformers, buses, but not breakers UNLESS the breaker is the only Element. Breakers should be used only if a single breaker tripped and did not disconnect any Element at one of its terminals (one breaker in a multiple breaker terminal, bus tie breaker, etc.).	Mandatory
Fault Type	The type of fault that occurred.	Mandatory
Event Description	A brief description of the event including: <ol style="list-style-type: none"> 1. Initiating event: include a description of any internal or external fault causes, any abnormal system conditions which may have contributed to the Misoperation, or state that the Misoperation occurred under normal operating conditions. 2. Facilities involved on which Protection Systems operated correctly and/or incorrectly concurrent with the Misoperation. 3. Component(s) of the Composite Protection System(s) that failed and/or did not function correctly. 4. Detailed description of root causes. 	Mandatory
Restoration Method	The restoration method.	Voluntary
Category	The category of the Misoperation.	Mandatory
Cause	The primary cause of the Misoperation.	Mandatory
TADS Reportable	Whether the Misoperation involved the automatic outage of a Transmission Availability Data Systems (TADS) reportable transmission element.	Mandatory

Misoperation Field Descriptions		
Field Name	Description	Mandatory/ Voluntary/Calculated
TADS Elements	The Element IDs of the TADS Elements that were outaged due to the Misoperation in a comma separated list.	Conditionally Mandatory
GADS Reportable	Whether the Misoperation involved the automatic outage of a Generating Availability Data Systems (GADS)-reportable Element.	Mandatory
GADS Elements	The concatenated Utility Code and Unit Code for the GADS Element(s) that were outaged due to the Misoperation.	Conditionally Mandatory
Reported By	The name of the person who is reporting the Misoperation	Mandatory
Reporter's Phone Number	The phone number (###) ###-#### of the person who is reporting the Misoperation.	Mandatory
Reporter's Email	The email address of the person reporting the Misoperation (name@domain.com)	Mandatory
Date Reported	The date the Misoperation was reported to NERC (MM/DD/YYYY)	Mandatory
Corrective Action Plan	Identification of the corrective actions. When a declaration was made stating no further corrective actions will be taken, this field should contain a description of the reason no actions were taken. If analysis is completed and the Unknown/Unexplainable cause code selected, investigative actions should be listed here. The CAP may be limited to corrective actions for the equipment that experienced the Misoperation but could also include corrective actions for other protection systems, depending on the review for applicability for other locations. Please consult your regional entity for guidance on whether or not they would like applicability for other locations included.	Voluntary
Corrective Action Status	The status of the corrective action plan.	Mandatory
CAP Target Completion Date	If corrective actions are not complete, an estimate of when they will be complete. (MM/DD/YYYY)	Voluntary
CAP Actual Completion Date	The actual completion date of the corrective actions. (MM/DD/YYYY)	Voluntary

Misoperation Field Descriptions		
Field Name	Description	Mandatory/ Voluntary/Calculated
Sub Cause	The subcause of the Misoperation.	Voluntary
Communication Sub-Cause	If the cause of the Misoperation is "Communication Failure", the sub cause of the communication failure.	Voluntary
Communication System Type	If the cause of the Misoperation "Communication Failure", the type of communication system.	Voluntary
System Schemes	The Composite Protection System scheme that misoperated. A protective relay package may have a main protection function (such as a high speed protections scheme) and other protective functions (such as step distance or overcurrent). The function within the Composite Protection System that is responsible for the misoperation should be reported in the system schemes field.	Voluntary
Protection Systems and Components	Information on the Protection Systems/Components that Misoperated. If the "Cause of Misoperation" is "Relay failures/malfunctions", "Incorrect settings", "Logic errors", or "Design errors", and the cause is associated with a relay, list relay models (types). For non-relay component Misoperation causes, include specific information on non-relay Protection System components that Misoperated, such as "damaged CT secondary cable".	Conditionally Mandatory
Relay Technology	If the Cause of Misoperation is "Relay failures/malfunctions", "Incorrect settings", "Logic Errors", or "Design Errors", this field is used to identify the relay technology installed.	Voluntary
Microprocessor Relay Manufacturer	If the relay Technology is "Microprocessor" then select the name of the manufacturer.	Voluntary
Additional Contact Name	The name of additional contact who has knowledge of the Misoperation.	Voluntary
Additional Contact's Phone Number	The phone number of the additional contact (###)###-####	Voluntary
Additional Contact's Email	The email address of the additional contact, name @domain.com	Voluntary
Comment	Free form text entered by the registered entity to provide clarification or additional information	Voluntary

Misoperations

From this page enter individual Misoperation records, modify existing Misoperation records, or deactivate previously submitted Misoperation records.

Region	Category	MIDAS Record ID	Misoperation Date
<input type="checkbox"/> MRO	<input type="checkbox"/> Failure To Trip	<input type="text" value=""/>	<input type="checkbox"/> Today
<input type="checkbox"/> NCEA	<input type="checkbox"/> Slow Trip		<input type="checkbox"/> Yesterday
<input type="checkbox"/> NERCExternal	<input type="checkbox"/> Failure to Trip - During Fault		<input type="checkbox"/> Last Seven Days
<input type="checkbox"/> Not Regionally Assigned	<input type="checkbox"/> Failure to Trip - Other than Fault		<input type="checkbox"/> Last 14 Days
<input type="checkbox"/> NPCC	<input type="checkbox"/> Slow Trip - During Fault		<input type="checkbox"/> Last 30 Days
<input type="checkbox"/> RF	<input type="checkbox"/> Slow Trip - Other than Fault		<input type="checkbox"/> Last 3 Months
More ▾	More ▲		More ▲

[Apply](#)

[Active Misoperations ▾](#) [Q](#) [Create](#) [Export to Excel](#)

MIDAS Record ID	Region	Entity	Jurisdiction	Misoperation Date	Misoperation Local Date Time	Seconds	Time Zone	Facility Name	Facility Voltage	Equipment Name	Equipment Type
▼ 10003852	RF	Testing Company Name Update, LLC	United States	3/1/2021 4:25 PM	3/1/2021 11:25 AM	0	EST	test	230kV	test	Line
▼ 10003868	RF	Testing Company Name Update, LLC	United States	1/1/2021 5:00 PM	1/1/2021 12:00 PM	0	EST	TEST	230kV	TEST	Line

Active Misoperations ▾

Search [] [] Create Export to Excel

MIDAS Record ID	Region	Entity	Jurisdiction	Misoperation Date	Misoperation Local Date Time	Seconds	Time Zone	Facility Name	Facility Voltage
10003852	RF	Testing Company Name Update, LLC	United States	3/1/2021 4:25 PM	3/1/2021 11:25 AM	0	EST	test	230kV
10003868	RF	Testing Company Name Update, LLC	United States	1/1/2021 5:00 PM	1/1/2021 12:00 PM	0	EST	TEST	230kV

Home / MIDAS Portal / Misoperations / Create New Misoperation

Create New Misoperation

New Misoperation Record

Entity *
Testing Company Name Update, LLC

Region *
MRO

Jurisdiction *

Misoperation Date and Time *

CAP Target Completion Date

CAP Actual Completion Date

Fault Type

Restoration Method

- Click the dropdown arrow on the record and choose “View Details”.

MIDAS Record ID	Region	Entity	Jurisdiction	Misoperation Date
10003652	RF	Testing Company Name Update, LLC	United States	12/1/2020 3:37 PM

A dropdown menu is open for the first record, showing options: View Details, Edit, and Delete. The 'View Details' option is highlighted with a red box and a mouse cursor.

View Details

Misoperation Details

ID *
RF_NCR55555_12/01/2020_10:37:00_test_test

MIDAS Record ID
10003652

Entity *
Testing Company Name Update, LLC

Region *
RF

- Click the dropdown arrow on the record and choose “edit”.
- If a field is unchangeable, then the record will need to be deleted and entered again to change the specified field.

MIDAS Record ID	Region	Entity	Jurisdiction	Misoperation Date
10003652	RF	Testing Company Name Update, LLC	United States	12/1/2020 3:37 PM

View Details

Edit

Delete

Edit Misoperation

Misoperation Details

ID * RF_NCR55555_12/01/2020_10:37:00_test_test

MIDAS Record ID 10003652

Entity * Testing Company Name Update, LLC

Region * RF

Jurisdiction * United States

Misoperation Date (UTC) * 12/1/2020 3:37 PM

Manual Entry * No Yes

System Schemes

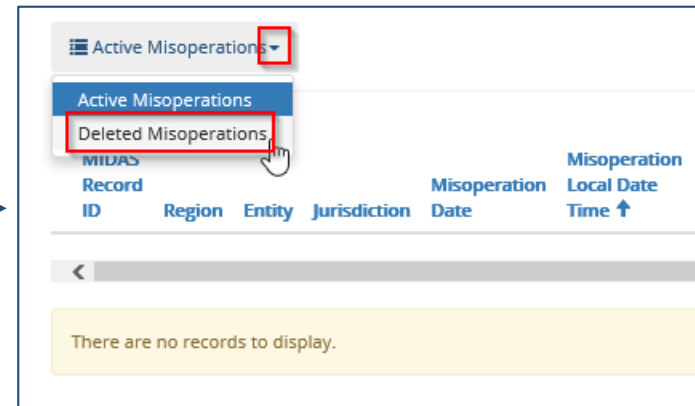
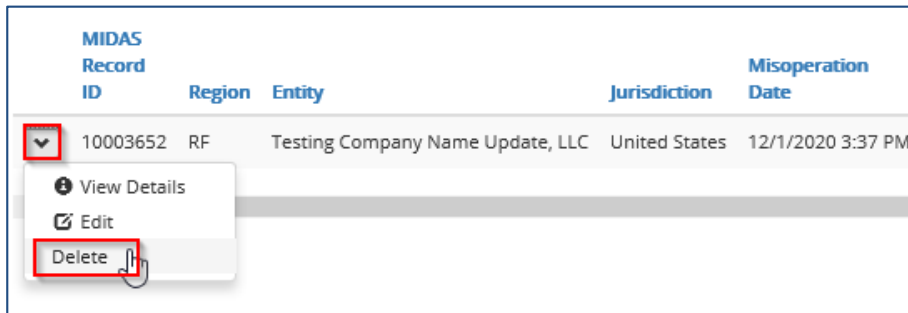
Protection Systems and Components

Relay Technology

Microprocessor Relay Manufacturer

TADS Reportable * No Yes

- Click the dropdown arrow on the record and choose “delete”.
- View all deleted misoperations by clicking the dropdown next to “Active Misoperations” and choosing “Deleted Misoperations”.
- If a record is accidentally deleted, it will need to be recreated.



A map of North America is shown in the background. A horizontal band, consisting of a dark blue top half and a light blue bottom half, passes through the center of the map. The text "Opt-Out Waivers" is centered within this band.

Opt-Out Waivers

- All Opt-Out waivers will be listed on this page.
 - If the record contains “Opt Out” in both the Misoperations and PSOPs columns, then the entity did not have any data to submit for the specified quarter
 - If the record contains “Opt Out” in the Misoperations column and “Submission” in the PSOPs column, then the entity only had only operations, but no misoperations for the specified quarter

Home / MIDAS Portal / Waivers (Opt-Outs)

Waivers (Opt-Outs)

From this page report no Protection System Operations and/or Misoperations for a given quarter.

Entity ↑	Region	Submission Quarter	Submission Year	Misoperation Submission or Opt Out	Protection System Submission or Opt Out	Modified On
Testing Company Name Update, LLC	RF	Qtr 4 (Oct 1 - Dec 31)	2020	Opt Out	Opt Out	3/10/2021 3:08 PM
Testing Company Name Update, LLC	RF	Qtr 2 (Apr 1 - Jun 30)	2020	Opt Out	Submission	3/10/2021 3:11 PM

- To manually create an Opt-Out, click “Create” on the Waivers (Opt-Outs) page.
- Choose the region, year, quarter and check the box of either or both of the opt-out waivers and click “Submit”.

Waivers (Opt-Outs)

From this page report no Protection System Operations and/or Misoperations for a given quarter.

Create New Waiver/Opt-out Record

Entity
Testing Company Name Update, LLC

Region
MRO

Submission Year *
2021

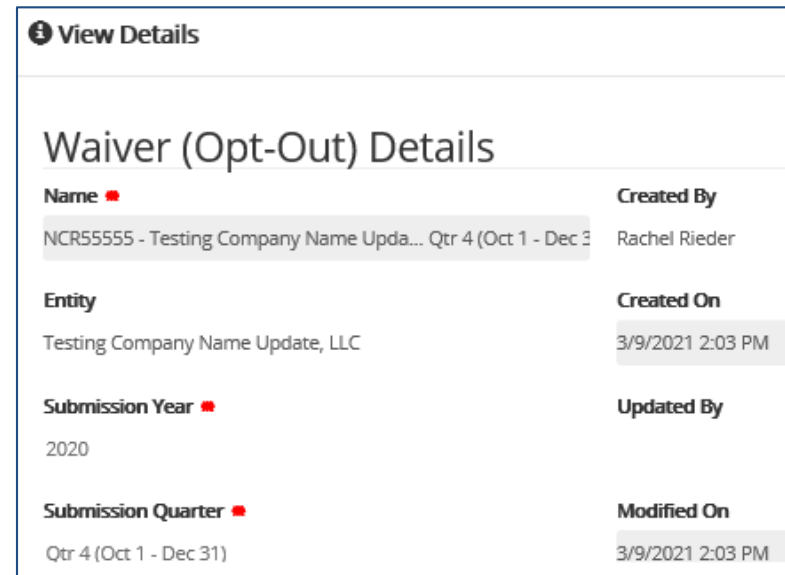
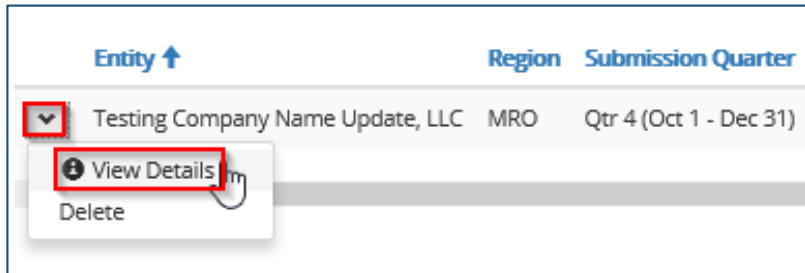
Submission Quarter *
Qtr 1 (Jan 1 - Mar 31)

Protection System Operations - Opt Out

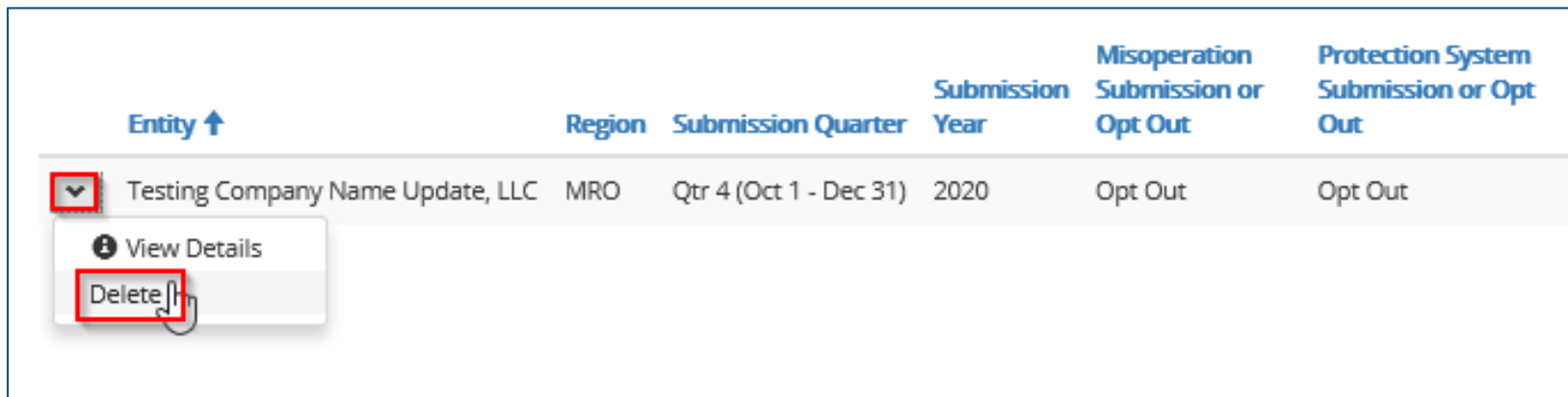
Misoperations - Opt Out

Submitted By
Rachel Rieder

- Click the dropdown arrow on the record and choose “View Details”.



- Click the dropdown arrow on the record and choose “delete”.
- If a record is accidentally deleted, it will need to be recreated.



The screenshot shows a table with the following columns: Entity, Region, Submission Quarter, Submission Year, Misoperation Submission or Opt Out, and Protection System Submission or Opt Out. A record for 'Testing Company Name Update, LLC' is highlighted, and a dropdown menu is open over the 'Entity' column, showing 'View Details' and 'Delete' options. Red boxes highlight the dropdown arrow and the 'Delete' option.

Entity ↑	Region	Submission Quarter	Submission Year	Misoperation Submission or Opt Out	Protection System Submission or Opt Out
Testing Company Name Update, LLC	MRO	Qtr 4 (Oct 1 - Dec 31)	2020	Opt Out	Opt Out



Bulk Submissions

- Protection System Operations are on the 1st tab of the bulk submission template.
- The user needs to fill out all yellow fields on this tab.
- Updates to Protection System Operations can also be submitted through a bulk submission.

Data Reporting Year	Data Reporting Quarter	Regional Entity Name (or Lead Regional Entity, if MRRE)	NERC Compliance Registry Number (NCR) (ex:NCR00123)	Jurisdiction	Voltage Class	Total CPSOPs Occurred in MRO	Total CPSOPs Occurred in NPCC	Total CPSOPs Occurred in RF	Total CPSOPs Occurred in SERC	Total CPSOPs Occurred in TRE	Total CPSOPs Occurred in WECC
					<100 kV	0	0	0	0	0	0
CPSOP - Composite Protection System Operation						100 kV	0	0	0	0	0
Version	011				115 kV	0	0	0	0	0	0
					120 kV	0	0	0	0	0	0
					138 kV	0	0	0	0	0	0
					161 kV	0	0	0	0	0	0
					230 kV	0	0	0	0	0	0
					345 kV	0	0	0	0	0	0
					500 kV	0	0	0	0	0	0
					735 kV	0	0	0	0	0	0
					765 kV	0	0	0	0	0	0
					HVdc	0	0	0	0	0	0
Total Correct Composite Protection System Operations (for each region)						0	0	0	0	0	0

- Misoperations are on the 2nd tab of the bulk submission template.
- The user needs to fill out all mandatory fields (can be found on the Misoperation Fields slides).
- Updates to Misoperations can also be submitted through a bulk submission.

Misoperation ID (CONCATENATED FIELD OF COLUMNS (B,C,E,F,H,I) DO NOT ENTER DATA)	Region Where Misoperation Occurred (select from dropdown)	NERC Compliance Registry Number (NCR) (ex:NCR00123)	Jurisdiction (select from dropdown)	Misoperation Date (MM/DD/YYYY)	Misoperation Time (HH:MM:SS)
__00:00:00__					
__00:00:00__					
__00:00:00__					
__00:00:00__					
__00:00:00__					
__00:00:00__					
__00:00:00__					
__00:00:00__					
__00:00:00__					
__00:00:00__					
__00:00:00__					

- The Opt-Out Waivers are on the 3rd tab of the bulk submission template.
- The user only needs to fill out this form if there are no operations or if there are no operations or misoperations for a given quarter.
- To opt-out of either column, the user needs to choose “Yes” for the associated column and fill out all other fields.

NERC Compliance Registry Number (NCR) (ex:NCR00123)	Data Reporting Year	Data Reporting Quarter	Regional Entity Name*	The entity listed has no CPS Operations to report for the listed quarter (Mark "Yes" if there are no operations to report, Opt-Out)	The entity listed has no Misoperations to report for the listed quarter (Mark "Yes" if there are no misoperations to report, Opt-Out)
NCR55555	2020	Qtr 4 (Oct 1 - Dec 31)	RF	No	Yes

▶ | 1- Operation Summary | 2 - Misoperation Entry Form | **3 - Opt-Out Waiver Form** | 4 - Definitions | 5 - Data

- All field descriptions are available on the 5th tab of the bulk submission template.

Tab 1 - Operation Summary		
Field Name	Required Field (Y/N)	Field Description
Data Submission Year	Y	The calendar year for which the operation data is reported.
Data Submission Quarter	Y	The calendar quarter for which the operation data is reported.
Regional Entity Name	Y	The entity's Regional Entity. If the entity is registered in multiple Regional Entities, the primary Regional Entity should be selected.
NERC ID	Y	The entity's NERC compliance registry number. This should include the three letters NCR and any preceding or following 0's.
Voltage Class	Y	Lists the 12 Voltage Classes
Total CPSOPs [Composite Protection System Operations] Occurred in (FRCC)	Y	The total number of Composite Protection System operations that occurred during the selected Quarter/Year for the registered entity within FRCC for each voltage
Total CPSOPs [Composite Protection System Operations] Occurred in (MRO)	Y	The total number of Composite Protection System operations that occurred during the selected Quarter/Year for the registered entity within MRO for each voltage
Total CPSOPs [Composite Protection System Operations] Occurred in (NPCC)	Y	The total number of Composite Protection System operations that occurred during the selected Quarter/Year for the registered entity within NPCC for each voltage
Total CPSOPs [Composite Protection System Operations] Occurred in (RF)	Y	The total number of Composite Protection System operations that occurred during the selected Quarter/Year for the registered entity within RF for each voltage class
Total CPSOPs [Composite Protection System Operations] Occurred in (SERC)	Y	The total number of Composite Protection System operations that occurred during the selected Quarter/Year for the registered entity within SERC for each voltage
Total CPSOPs [Composite Protection System Operations] Occurred in (TRE)	Y	The total number of Composite Protection System operations that occurred during the selected Quarter/Year for the registered entity within TRE for each voltage class
Total CPSOPs [Composite Protection System Operations] Occurred in (WECC)	Y	The total number of Composite Protection System operations that occurred during the selected Quarter/Year for the registered entity within WECC for each voltage
Tab 2 - Misoperation Entry Form		
Field Name	Required Field (Y/N)	Field Description
Misoperation ID	Y	An automatically concatenated entity-specific Misoperation identifier.
Region Where Misoperation Occurred	Y	The Regional location where the Misoperation occurred.
NERC Compliance Registry Number	Y	The entity's NERC compliance registry number. Ex:NCR999999 Use this URL you need to lookup your NERC Compliance Registry Number: http://www.nerc.com/pa/comp/Pages/Registration.aspx
Jurisdiction	Y	The country the Misoperation occurred in.
Misoperation Date	Y	The date of the Misoperation in MM/DD/YYYY format.
Misoperation Time	Y	The time of the Misoperation in 24hr HH:MM:SS format.
Time Zone	Y	The time zone in which the Misoperation occurred, see Definitions tab for detailed definitions.
Facility Name (Location of Misoperation)	Y	The name of the facility (i.e., substation or generating station) where the Misoperation occurred.

Navigation: 3 - Opt-Out Waiver Form | 4 - Definitions | **5 - Data Description** | 6 - Version History

- Any time a change is made to the bulk submission template, it will be listed on the 6th tab.

Version Number	Date	Description
010	08/05/2019	Version number added to 1-Operation Summary tab 6 - Version History tab was added
009	04/26/2019	Opt-Out Waiver Form changed from tab 5 to tab 3 "FRCC" removed from Definitions tab, and consequentially all dropdowns "Total PSOPs Occurred in FRCC" (column G) removed from Operation Summary tab
008	12/11/2018	Added Opt-Out Waiver Form sheet Not released, incorporated into version 009
007	05/16/2018	SPP removed from Definitions tab, and consequentially all dropdowns "Total PSOPs Occurred in SPP" removed from Operation Summary tab
006	03/19/2018	Definitions tab was scrolled to the top by default.
005	06/01/2017	TRE changed to Texas RE
004	05/11/2017	Default printing options for each sheet adjusted Cells A2-E2 have been highlighted yellow for increased visibility to users.

... | 3 - Opt-Out Waiver Form | 4 - Definitions | 5 - Data Description | **6 - Version History**

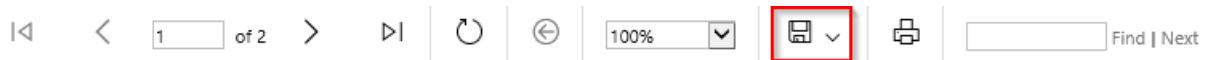
A stylized map of North America is centered on the page. A horizontal band, consisting of a dark blue top half and a light blue bottom half, passes through the middle of the map. The text 'MIDAS Reports' is overlaid on the light blue portion of this band.

MIDAS Reports

- In order to run the Submission Status Report, the user must select an option(s) for the following fields:
 - Entities
 - Quarter Start/End
 - Year Start/End
- Then, click “Run Report”.

The screenshot shows a web form titled "Submission Status Report". Under the heading "Select Entities", there are two checkboxes: "Align Prod Integration Test" (unchecked) and "Testing Company Name Update, LLC" (checked). Below this, there are four dropdown menus: "Target Quarter Start" (Quarter 1 (January 1 - March 31)), "Target Year Start" (2020), "Target Quarter End" (Quarter 4 (October 1 - December 31)), and "Target Year End" (2020). At the bottom right of the form is a "Run Report" button. Red boxes highlight the checked checkbox, the "Testing Company Name Update, LLC" text, the "Target Quarter Start" dropdown, the "Target Year Start" dropdown, the "Target Quarter End" dropdown, the "Target Year End" dropdown, and the "Run Report" button.

- The report displays Submission Status for the selected entity(s), year(s) and quarter(s).
- The user has the ability to export and/or print the report.



Misoperation Submission Status for NCR55555

For Q1, 2020 through Q4, 2020

Page 1 of 2

NERC ID	Entity	Region Name	Quarter	Year	Reporting Required	Status	Misoperations		PS Operations	
							Submission	Opt Out	Submission	Opt Out
NCR55555	Testing Company Name Update, LLC	RF	Q1	2020	Yes	Missing Submissions	No	No	No	No
			Q2	2020	Yes	Complete	Yes	No	Yes	No
			Q3	2020	Yes	Missing Misoperations Submission / Opt Out	No	No	Yes	No
			Q4	2020	Yes	Opted Out	No	Yes	No	Yes
		WECC	Q1	2020	No	Missing Submissions	No	No	No	No
			Q2	2020	No	Missing Submissions	No	No	No	No
			Q3	2020	No	Missing Submissions	No	No	No	No
			Q4	2020	No	Missing Submissions	No	No	No	No

- In order to run the Misoperations Rate Report, the user must select an option(s) for the following fields:
 - Entities
 - Region
 - Quarter Start/End
 - Year Start/End
- Then, click “Run Report”.

The screenshot shows a web form titled "Misoperations Rate Report". The form contains several input fields, each highlighted with a red box:

- Select Entities:** A checkbox labeled "Testing Company Name Update, LLC" is checked.
- Select Region:** A dropdown menu is set to "RF".
- Target Quarter Start:** A dropdown menu is set to "Quarter 1 (January 1 - March 31)".
- Target Quarter End:** A dropdown menu is set to "Quarter 4 (October 1 - December 31)".
- Target Year Start:** A dropdown menu is set to "2020".
- Target Year End:** A dropdown menu is set to "2020".
- Run Report:** A button labeled "Run Report" is located at the bottom right of the form.

- The report displays Misoperation Rates for the selected entity(s), region and NERC as a whole for the individual voltage classes.
- Once the report is run, the user has the ability to export and/or print the report.

Entity Misoperation Rate Report for
NCR55555 for Region RF
For Q1, 2020 through Q4, 2020

Voltage Class	Entity	NERC ID	Entity Counts		Misoperation Rate		
			PS Ops	Misoperations	Entity	RF	Nerc
120kV	Testing Company Name Update, LLC	NCR55555	5	1	20.00%		
Totals			5	1	20.00%	20.51%	14.71%
138kV	Testing Company Name Update, LLC	NCR55555	7	2	28.57%		
Totals			7	2	28.57%	9.76%	7.11%
Total Across Voltages						RF	Nerc
						10.94%	6.35%



Questions and Answers