



GEORGIA
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

2023 Emission Inventory – GECO/CAERS Updates

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**2023 EI Point Source Emission Reporting
Training Webinar**
December 13, 2023



TRAINING OUTLINE

- **Regulatory Information/Applicability of Emission Inventory**
- **New Proposed Air Emissions Reporting Requirements (AERR)**
- **Combined Air Emissions Reporting System (CAERS)**
- **HAPs Guidance Updates**
- **2023 EI Submittal Walkthrough**
- **Georgia QA Internal Checks**
- **Helpful Tips for 2023 EI**
- **Resources and Next Steps**



EMISSION INVENTORY REGULATION/APPLICABILITY



EI REGULATORY BASIS

Regulations requiring GA EPD to collect an Emissions Inventory

1. **Federal:** 40 CFR Part 51 Subpart A - Air Emissions Reporting Requirements (AERR) and the EPA Air Planning Agreement
2. **State:** Georgia Rule 391-3-1-.02(6)(b)1.

GECO is updated for 2023 EI; CAERS will reopen on Feb. 5, 2024. GA EPD requires participating facilities to report data by **June 30th**. **No extensions will be provided after July 15th.**



APPLICABILITY

All Part 70 Major Sources are subject.

- Exceptions include:
 - Permitted but not constructed facilities
 - Facilities with Federally Enforceable Permit Limits (e.g., Synthetic Minor or Major HAP sources)
 - Facilities which were shutdown during the entire calendar year

2023 EI Year is a Triennial Year

1. Triennial thresholds are lower than annual Year thresholds
2. Thresholds are PTE-based except for Lead

Triennial Year PTE Thresholds	
Pollutant	(tons per year)
SO ₂	≥ 100
VOC	≥ 100
NO _x	≥ 100
CO	≥ 1000
Pb	≥ 0.5 (actual)
Primary PM ₁₀	≥ 100
Primary PM _{2.5}	≥ 100
NH ₃	≥ 100



NEW PROPOSED AERR



PROPOSED AERR PROVISION RELATED TO POINT SOURCES

On July 24th, 2023, EPA published a draft of a new proposed **Air Emissions Reporting Requirements (AERR)**. Proposal includes:

- New deadline for CAPs reporting: Proposed new deadline March 31, 2031
- Mandatory HAPs reporting: All speciated HAPs emitted for TV sources
- Change in reporting thresholds. No triennial year reporting, every year will have the same (previously the annual/triennial) threshold.
- New data collection requirements for small generating units, mobile sources and portable sources
- Emissions data not entitled to confidential treatment
- Require to use electronic reporting to submit certain source tests



WHAT IS CAERS



GA EPD USES CAERS FOR THE PS EI

CAERS (Combined Air Emissions Reporting System) is an application that allows industry from subscribed State, Local, or Tribal authorities (or SLTs) to report their air emissions.

This allows:

- SLT's to meet specific air emissions reporting requirements
- Annual or triennial reporting to meet the requirements of the Air Emissions Reporting Requirements (AERR) rule
- Facilities to voluntarily report HAPs emissions at process level which could be used to pre-populate Toxics Release Inventory (TRI) air toxics emissions.
 - TRI data must still be completed and certified in TRI-MEweb
 - EPD is continuously encouraging facilities to submit HAPs emissions to CAERS



CAERS USER ROLES

Role	Description	Number per Facility	Create Initial Report	Certify Report
Preparer	Prepares an emissions report for a facility (e.g., consultant, staff person working for the facility).	Multiple	Yes	No
Certifier	Certify the emissions report or opt out of the EI to meet your legal obligation for reporting to your SLT.	Only one	Yes	Yes

Note: An individual preparer or certifier account can be associated with more than one facility.



HAPS GUIDANCE UPDATES



HAPS PILOT PROGRAM

- Since the recent proposal of the new AERR, Georgia EPD has been working on modifying the approach to the planned GA HAPs inventory.
- Until 2026, Georgia will still collect voluntary HAP reporting from facilities.
- The 2023 HAP pilot program will focus on voluntary reporting and feedback about the reporting process and timelines.
- Total toxics air emissions are made available for TRI-MEweb once the facility has certified the report in CAERS.



HAPS GUIDANCE

HAPs can be reported in CAERS just like CAPS.

Emissions Associated with this Process

Pollutant Name	Code	CAS ID	
Acrolein	107028	107-02-8	🗑️
Aniline	62533	62-53-3	🗑️
Benzene	71432	71-43-2	🗑️
Carbon Disulfide	75150	75-15-0	🗑️
PM Condensable	PM-CON		🗑️
PM10 Filterable	PM10-FIL		🗑️
PM2.5 Filterable	PM25-FIL		🗑️
Phenol	108952	108-95-2	🗑️
Styrene	100425	100-42-5	🗑️
Toluene	108883	108-88-3	🗑️
Volatile Organic Compounds	VOC		🗑️
			+

🔍 Pollutant:*

🔍 Pollutant Name:

- Styrene - 100425 - 100-42-5
- Styrene Oxide - 96093 - 96-09-3

When a VOC or PM HAP is reported, it **should also** be included in the corresponding CAP total. Total HAP cannot not exceed CAP total.

Pollutant	Type	Fugitive Amount	Stack Amount	Units of Measure	2021 Reported Emissions
1,3-Butadiene	HAP	0	0.01777006	Tons	0.01777006
Arsenic	HAP	0	0.00000935	Tons	0.00000935
Carbon Monoxide	CAP	0	3.92528	Tons	3.92528
Chromium	HAP	0	0.00006542	Tons	0.00006542
Dibenzofuran	HAP	0	0.00041084	Tons	0.00041084
Ethyl Benzene	HAP	0	0.13070006	Tons	0.13070006
Hexane	HAP	0	0.8813095	Tons	0.8813095
Lead	CAP	0	0.00002336	Tons	0.00002336
Mercury	HAP	0	0.00001215	Tons	0.00001215
Naphthalene	HAP	0	0.03418941	Tons	0.03418941
Nitrogen Oxides	CAP	0	4.67295	Tons	4.67295
o-Xylene	HAP	0	0.51058746	Tons	0.51058746
Phenol	HAP	0	0.03654564	Tons	0.03654564
PM Condensable	CAP	0	0.91266219	Tons	0.91266219
PM10 Filterable	CAP	0	1.02334769	Tons	1.02334769
PM2.5 Filterable	CAP	0	0.64630429	Tons	0.64630429
Styrene	HAP	0	2.26455793	Tons	2.26455793
Sulfur Dioxide	CAP	0	0.0280377	Tons	0.0280377
Toluene	HAP	0	0.61990904	Tons	0.61990904
Volatile Organic Compounds	CAP	0	57.940939	Tons	57.940939
Total Emissions (Tons)	--	--	--	--	73.64561109

Total PM →

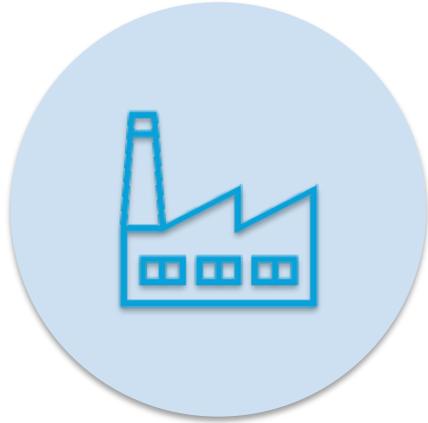
Total VOC →

Total VOC (57.94 tons) ≥ Total HAP VOC (4.50 tons) ✓
 Total PM10 (1.02 tons) ≥ Total PM HAP (0.00017 tons) ✓

Note: HAP emissions should match what is reported to TRI.



2023 EI WALKTHROUGH



**UPDATE FACILITY &
CONTACT
INFORMATION**



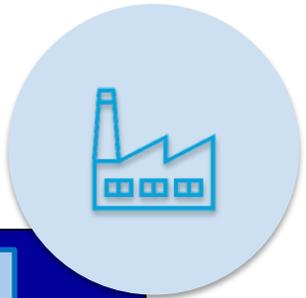
**DETERMINE
PARTICIPATION
STATUS (OPT
OUT/OPT IN)**



**SUBMIT 2023 EI &
CERTIFY**



STEP 1: ACCESS YOUR FACILITY IN GEKO



Georgia Environmental
Connections Online

<https://geko.gaepd.org/>
(Register for an account if new to GEKO)

GEKO Home

Georgia Environmental Connections Online ("GEKO") is an online system for Georgia Air Protection Branch applications.

You have access to work on the following facilities:

Facility Name	AIRS Number	User Admin	Permit Fees	Emissions Inventory
Durango-Georgia Paper Company	039-00001	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ford Motor Co	121-00364	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

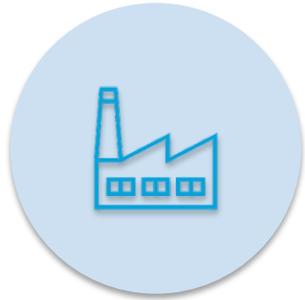
[Request access to a facility](#)

Returning users with EI access – Facilities will be listed and the EI box checked. Click on “Facility Name” to access the EI form.

New Users – Request access to your facility using the hyper link on the home page.



GECO FACILITY ACCESS REQUEST



GECO Facility Access Request

To begin, find the facility by AIRS number or name and select the type of access requested.

By AIRS Number

By Facility Name

GECO Access Type Requested *(Select all that apply.)*

- Facility Access
- Permit Fees
- Emissions Inventory

Request EI access

This facility has the following admin users. Please contact them directly to request access or use the form below to send an automated message.

- Jing Wang
- Emily Phillips
- Maria Geonczy

Check box if admin users are unavailable or EPD assistance is needed

If these admin users are unavailable or you need assistance from the Air Protection Branch instead, check this box.

Additional Comments *(Optional; these comments will be attached to the message.)*

Send Request

The following message will be sent to the **Facility Administrators** listed above.



APPLICATION STATUS MENU



Current facility:
Durango-Georgia Paper Company, St. Marys
AIRS Number: 039-00001

Switch facility Facility home

Home

Facility Info

User Access

Communication Preferences

Main Emission Inventory Contact can be changed here or from within the EI form.

Facility Home

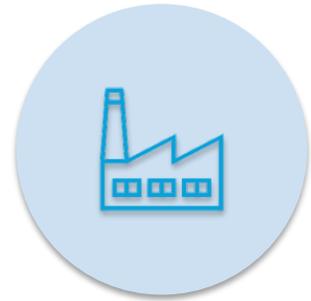
Managing user access for facility admins.

GECO Applications	Current Status
Permits & Application Fees	0 open permit applications.
Annual/Emissions Fees	In Progress - Please Complete the Fees for 2019 on July 28, 2020. <i>Due: September 1, 2020</i>
Fees Summary	
Emissions Inventory	Enrolled in 2022 EI. <i>Due: June 30, 2023</i>
Test Notifications	No pending test notifications.

Access 2023 EI Application here



STEP 2: REVIEW FACILITY INFORMATION



Emissions Inventory

EI Home Historical Data

For more information on how to submit your Emissions Inventory, visit <https://epd.georgia.gov/forms-permits/air-protection-branch-forms-permits/point-source-emissions-inventory>.

1. Facility Information

Review the facility information below and if there is any mistake, please email: emissions.inventory@dnr.ga.gov.

Description	Kraft Pulp Mill
Operating Status	Operating as reported in 2020 * Operating status pertains only to the last Emissions Inventory reported
NAICS Code	111110 - Soybean Farming
Site Address	4244 International Parkway Suite 120-test ATLANTA, GA 30354
Geocoordinates	30.805990, -81.524999

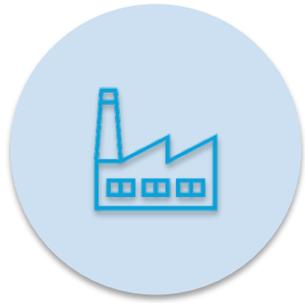
Please contact us for any facility information discrepancy.



[Open map in new window](#)



STEP 3: UPDATE EI CONTACT INFORMATION



2. CAERS Users

Please ensure all contact information is correct in communication preferences before proceeding to update CAERS contact information.

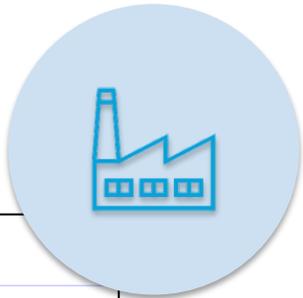
Next add and update CAERS users below. Use of CAERS requires one certifier and one or more preparers. If a single person serves both roles, they must be added as both.

Current CAERS Users

Role	User	Address	Email	Phone	Controls
Certifier	Ms. Maria George	4244 International Blvd	emissions_inventory@dcr.ga.gov	1224567891	Edit Delete



STEP 3: UPDATE GECO EI CONTACT INFORMATION



Current facility:
Durango-Georgia Paper Company, St. Marys
AIRS Number: 039-00001

Home Facility Info User Access **Communication Preferences**

Communication Preferences

Current communication preferences and contacts for this facility. You can edit each type of communication by selecting the "Edit" button for each type.

Note: This page is for editing facility contact information. To edit user information, CAERS Users, go to the [Emissions Inventory](#) page.

Permit Fees **Communication Preferences**

[Edit](#)

Primary Contact

Jing Wang
Engineer
Air Protection Branch
4244 International Parkway
Atlanta, GA 30354

404-363-7137
JING.WANG@DNR.ST

Additional Email

Home Facility Info User Access **Communication Preferences**

Communication Preferences / Edit

Set your preferences for receiving communications from the Georgia Environmental Protection Division. Preferences can be set separately for each type of communication.

[Permit Fees](#) [Permit Applications](#) **Emissions Inventory** [Testing and Monitoring](#)

Edit Preferences for Emissions Inventory

Primary Contact

Salutation ("Ms.", "Dr.", etc.)

First Name

Last Name *required*

Title

Organization

Street Address *required*

Apt / Suite / Other

City *required*

State *required*

Postal Code *required*

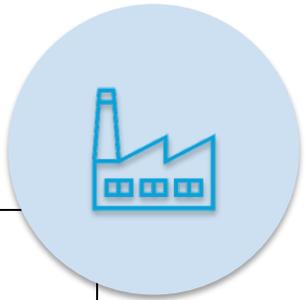
Telephone Number *required*

Primary Contact Email *required*

[Save Contact Info](#)



STEP 4: UPDATE CAERS USERS



2. CAERS Users

Please ensure all contact information is correct in communication preferences before proceeding to update CAERS contact information.

Next add and update CAERS users below. Use of CAERS requires one certifier and one or more preparers. If a single person serves both roles, they must be added as both.

If a single person serves both roles, they must be added as preparer and certifier.

Current CAERS Users

Role	User	Address	Email	Phone	Controls
Certifier	Ms Maria Geonczy	4244 International Pkwy Suite 120 Atlanta, GA 30310	emissions.inventory@dnr.ga.gov	1234567891	Edit Delete
Preparer	Ms Maria Geonczy	4244 International Pkwy Suite 120 Atlanta, GA 30310	emissions.inventory@dnr.ga.gov	9876543210	Edit Delete

Add New CAERS User

Verify or add your preparer(s) and certifier information. Note that you can change users at any time.



STEP 5: SUBMIT 2023 EI/ OPT-OUT DETERMINATION



3. Submit EI

Title V facilities will receive one of three emails indicating their status first week of January 2024.

All facilities that need to opt out or submit a 2023 EI will receive one of three emails during the first week of January 2024. The email will indicate whether the facility qualifies to opt out, opt out but report actual lead (Pb) emissions, or report their 2023 EI.

- If the facility agrees with the opt-out determination, you can convert the email to pdf and upload to CAERS as the PTE analysis attachment.
- If corrections need to be made for an opt-out or opt-in facility, please download the [Opt-out form](#) to make any changes. Upload the completed form to CAERS as the PTE analysis attachment.
- If the facility produces Pb, you will need to complete the opt-out form, ensuring that Pb actual emissions are recorded.



If new to CDX/CAERS, the preparer(s) and certifier you have specified should follow this process:

1. Register in CDX using the link to EPA's CDX above and set up CAERS in CDX.
2. Await email approval from CDX that their CAERS account is linked to the correct facilities.
3. Once approved, select facility, then click on the "Create New Report" button for the Report.

If a correction needs to be made, they can complete this opt out form to upload to CAERS.

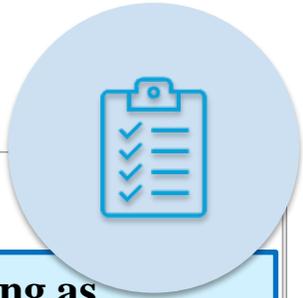
[Link to EPA CDX](#)

CAERS will reopen on February 5th

Click here to be directed to CDX to access 2023 EI prompts in CAERS.



OPT-OUT FORM – MODIFYING OPT-OUT PTE



2023 Georgia Point Source Emission Inventory (EI) Opt-Out Form

Form instructions:

Light yellow cells indicate a drop-down list.

All cells are required fields unless specified otherwise. Fields with an asterisk (*) are only required during a triennial year.

Upon completion, please upload this form into the Combined Air Emissions Reporting System (CAERS) as your opt-out justification.

If additional information needs to be provided, here are three acceptable methods:

- (1) Enter notes under the "Opt-out Justification" table.
- (2) Add notes on an added tab within this spreadsheet and indicate in the "Facility Response" where the additional notes are located.
- (3) Upload any additional document to supplement what you enter.

Light yellow cells are drop-down lists.

Provide the following as indicated:

- Permit condition
- TV permit application

Any additional information can be provided below table, on another tab, or another spreadsheet

Triennial PTE Thresholds

(Select)

(Select)

Permit condition limit.

PTE from Title V application

Pollutant not emitted.

(Select)

Opt-Out Justification

- Please enter Potential to Emit (PTE) emissions below.
- Next, select PTE emissions justification.
- Once selected, the next cell will autopopulate and you can provide a response accordingly in the "Facility Response" column.

Pollutant	Triennial EI PTE Emissions Threshold* (tpy)	PTE Emissions (tpy)	Select PTE emissions justification.	See below:
VOC	100	(Select)	Select PTE emissions justification	
SO2	100	(Select)	Select PTE emissions justification	
NOx	100	(Select)	Select PTE emissions justification	
CO	1000	(Select)	Select PTE emissions justification	
Pb*	0.5 (actual)	(Pb only: Select actual emissions justification.)	Select actual emissions justification	
PM10	100	(Select)	Select PTE emissions justification	
PM2.5	100	(Select)	Select PTE emissions justification	
NH3	100	(Select)	Select PTE emissions justification	

Facility Response

Example facility response:
 Provide TV Permit # and limit condition: 2631-039-0001-V-05-1 permit condition 3.2.4
 (or) Provide Title V application # where the PTE value was reported: TV-45678

- PTE emissions from permit must correspond to the EI calendar year
- If a permit was issued at some point of the EI calendar year, the greater of the PTE is used



CAERS – OPT-OUT QUESTION 1



Emission Reporting Opt-In

The questions below will help you determine your level of participation in the 2020 Emissions Inventory Year reporting.

Was this facility operating in 2020?

- Yes. The facility was **operating** during some or all of 2020.
- No. The facility did not operate at all during 2020, but is operating now or will operate again in the future, and is thus **temporarily shutdown**.
- No. The facility did not operate at all during 2020, will not operate again, and is thus **permanently shutdown**.

Note: If the facility has never operated and is currently in construction, you do not need to submit an EI. If you have received an EI email notification, please contact emissions.inventory@dnr.ga.gov to be removed from the 2020 EI email list. You should also delete the facility from your "My Facilities" page.

Opt-out scenarios

- Operating but under thresholds
- Temporarily/ Permanently Shutdown all of 2023

Answering “No” to the first question will be directed to certify your report with no opt-out form needed.

Facilities that never operated or currently in construction, do not need to submit an EI



CAERS – OPT-OUT QUESTION 2



Facility Emissions Thresholds

Pollutant	Triennial Threshold (in Tons per Year)
Sulfur Dioxide (SO2)	Potential to emit ≥ 100
Volatile Organic Compounds (VOC)	Potential to emit ≥ 100
Nitrogen Oxides (NOX)	Potential to emit ≥ 100
Carbon Monoxide (CO)	Potential to emit ≥ 1000
Primary PM2.5. As applicable, also report filterable and condensable components.	Potential to emit ≥ 100
Primary PM10. As applicable, also report filterable and condensable components.	Potential to emit ≥ 100
Ammonia (NH3)	Potential to emit ≥ 100
Lead (PB)	Actual emissions ≥ 0.5

Is the facility below ALL of the thresholds listed?

Yes

No

This facility will be "Operating" below the AERR thresholds for the 2020 inventory year and will not submit an emissions Inventory Report this year. You will now be redirected to the submission screen where you must provide your PTE analysis and certify your report.

Cancel Proceed

For lead, you will be looking at actual emissions.

Answering "Yes" to the second question:

- Statement appears that summarizes your selection and next steps.
- This will send you to a screen that requires an attached opt-out form found in GECCO.



CAERS – OPT-OUT FORM ATTACHMENT



My Facilities > Emissions Reports > 2022 Emissions Report ⚠ CBI Disclaimer CAERS H

Agency ID: 999999999
 GADNR FAKE: CAER Test Facility
 538 Cajundome Blvd
 Lafayette, GA 70506
 2022 Emissions Report
 Agency: GADNR

Report Facility & Emissions Information Perform Quality Checks Submit to SLT Authority Approved by SLT Authority

Report Summary							
Pollutant	Type	Fugitive Amount	Stack Amount	Units of Measure	2022 Reported Emissions	Previous Year Reported Emissions	Previous Submittal Year
Total Emissions (Tons)	--	--	--	--	0	0	--

Download Report Summary Download Process Emissions Summary

Preparer/NEI Certifier Attachments

User Name	Comments	Attachments
		<p>Attach Report Document</p>

NEW

Attach PTE analysis before you can certify your opt-out status.

You must attach your Potential to Emit (PTE) analysis before you can certify and submit.

Certify and Submit to SLT

Attach email confirmation or updated opt-out form and any other proof of PTE documentation (pdf and excel files accepted now).

Attach PTE analysis before you can certify your opt-out status.

Attach Report Document

You must attach your Potential to Emit (PTE) analysis before you can certify and submit.

Certify and Submit to SLT



CAERS – OPT IN



Emission Reporting Opt-In

The questions below will help you determine your level of participation in the 2020 Emissions Inventory Year reporting.

Was this facility operating in 2020?

- Yes. The facility was **operating** during some or all of 2020.
- No. The facility did not operate at all during 2020, but is operating now or will operate again in the future, and is thus **temporarily shutdown**.
- No. The facility did not operate at all during 2020, will not operate again, and is thus **permanently shutdown**.

Note: If the facility has never operated and is currently in construction, you do not need to submit an EI. If you have received an EI email notification, please contact emissions.inventory@dnr.ga.gov to be removed from the 2020 EI email list. You should also delete the facility from your "My Facilities" page.

Facility Emissions Thresholds

Pollutant	Triennial Threshold (in Tons per Year)
Sulfur Dioxide (SO ₂)	Potential to emit ≥ 100
Volatile Organic Compounds (VOC)	Potential to emit ≥ 100
Nitrogen Oxides (NO _X)	Potential to emit ≥ 100
Carbon Monoxide (CO)	Potential to emit ≥ 1000
Primary PM _{2.5} . As applicable, also report filterable and condensable components.	Potential to emit ≥ 100
Primary PM ₁₀ . As applicable, also report filterable and condensable components.	Potential to emit ≥ 100
Ammonia (NH ₃)	Potential to emit ≥ 100
Lead (PB)	Actual emissions ≥ 0.5

Is the facility below ALL of the thresholds listed?

- Yes
- No

Submit to begin 2023 EI.





GEORGIA INTERNAL QA CHECKS



GEORGIA INTERNAL QA CHECKS

- **Opt-Out Status**
 - Review PTE if operating and PTEs are below AERR triennial thresholds
 - Verify shut-down status (no opt-out form required)
 - Review Pb actual emissions for the facilities that have Pb listed in permit
- **Emissions Data**
 - Process level emissions calculation checks for correctness and reproducibility
 - Emphasis on PM_{2.5} due to exceedances in certain counties
 - 0 emissions for operating process should have a comment to explain why the process is not shut down.
 - Reasons for significant Facility-wide emissions change CAP pollutants totals (increase/decrease of >20% for CAPs and >10% for HAPs)
- **Control units**
 - Applicable permit and previous CAERS entry
- **Quality Check Run Results: Warning review**
- **Co-located facilities**
 - Report EI if collectively PTE thresholds are exceeded





HELPFUL TIPS FOR 2023 EI SUBMITTAL



HELPFUL TIPS – REPORT CREATION LOG

- Appears when first opening your report for the new EI year
- Provides insight on two types of changes that could have occurred:
 - EPA updates
 - Bulk upload template to CAERS user interface

Report Has Been Successfully Created

Your report has been successfully created. As part of the report creation process CAERS will check for updated US EPA emission factors and attempt to automatically update those for you. CAERS also reconciles Emissions Unit, Processes, Controls and Control Paths by ensuring all operating components in the previous report are present in the current report.

Please view Report Creation Log to see any changes made to your report.

[View Log](#) [Close](#)

Report Facility & Emissions Information Perform Quality Checks Submit to SLT Authority

Report Creation Log

1. [Facility Site](#) - Information for this facility was updated.
2. [Facility Site](#) - NAICS code 212323 was added.
3. [Emissions Unit: F4, Emission Process: 1](#) - The Hours per Reporting Period has been updated.
4. [Emissions Unit: F4, Emission Process: 1, Pollutant: Sulfur Dioxide](#) - The USEPA Emission Factor has been updated.
5. [Emissions Unit: F4, Emission Process: 1, Pollutant: PM10 Primary \(Filt + Cond\)](#) - The USEPA Emission Factor has been updated.
6. [Emissions Unit: F4, Emission Process: 1, Pollutant: Nitrogen Oxides](#) - The USEPA Emission Factor has been updated.
7. [Emissions Unit: F4, Emission Process: 1, Pollutant: PM2.5 Primary \(Filt + Cond\)](#) - The USEPA Emission Factor has been updated.
8. [Emissions Unit: F4, Emission Process: 1, Pollutant: Carbon Monoxide](#) - The USEPA Emission Factor has been updated.
9. [Emissions Unit: F4, Emission Process: 1, Pollutant: Volatile Organic Compounds](#) - The USEPA Emission Factor has been updated.
10. [Emissions Unit: M4, Emission Process: 1](#) - The Hours per Reporting Period has been updated.
11. [Emissions Unit: F5, Emission Process: 1](#) - The Hours per Reporting Period has been updated.
12. [Emissions Unit: F5, Emission Process: 1, Pollutant: Sulfur Dioxide](#) - The USEPA Emission Factor has been updated.
13. [Emissions Unit: F5, Emission Process: 1, Pollutant: PM10 Primary \(Filt + Cond\)](#) - The USEPA Emission Factor has been updated.
14. [Emissions Unit: F5, Emission Process: 1, Pollutant: Nitrogen Oxides](#) - The USEPA Emission Factor has been updated.
15. [Emissions Unit: F5, Emission Process: 1, Pollutant: Volatile Organic Compounds](#) - The USEPA Emission Factor has been updated.



HELPFUL TIPS – ENTERING NEW EMISSION UNITS

- Match emission unit and control device IDs as identified in permit.
 - Do not modify IDs that are already entered in CAERS.
- Order of emission data entry:
 - Emission unit > Process > Pollutants > Release Point > Control Device > Path
 - Then connect via Release Point Apportionment found in process level of an emission unit

Release Points Associated with this Process

Release Point	Release Type	Control Path	%		
Total % Apportionment of Emissions			0%		

Note: Each process must allocate exactly 100% of its emissions to one or more release points before the report can be submitted.

Natural Gas Throughput Value: 5000

Release Point Apportionment

Select a Release Point
RP-ESP -

Select a Control Path (optional)
Boiler-ESP

% Release Point Apportionment* 100

Save Cancel

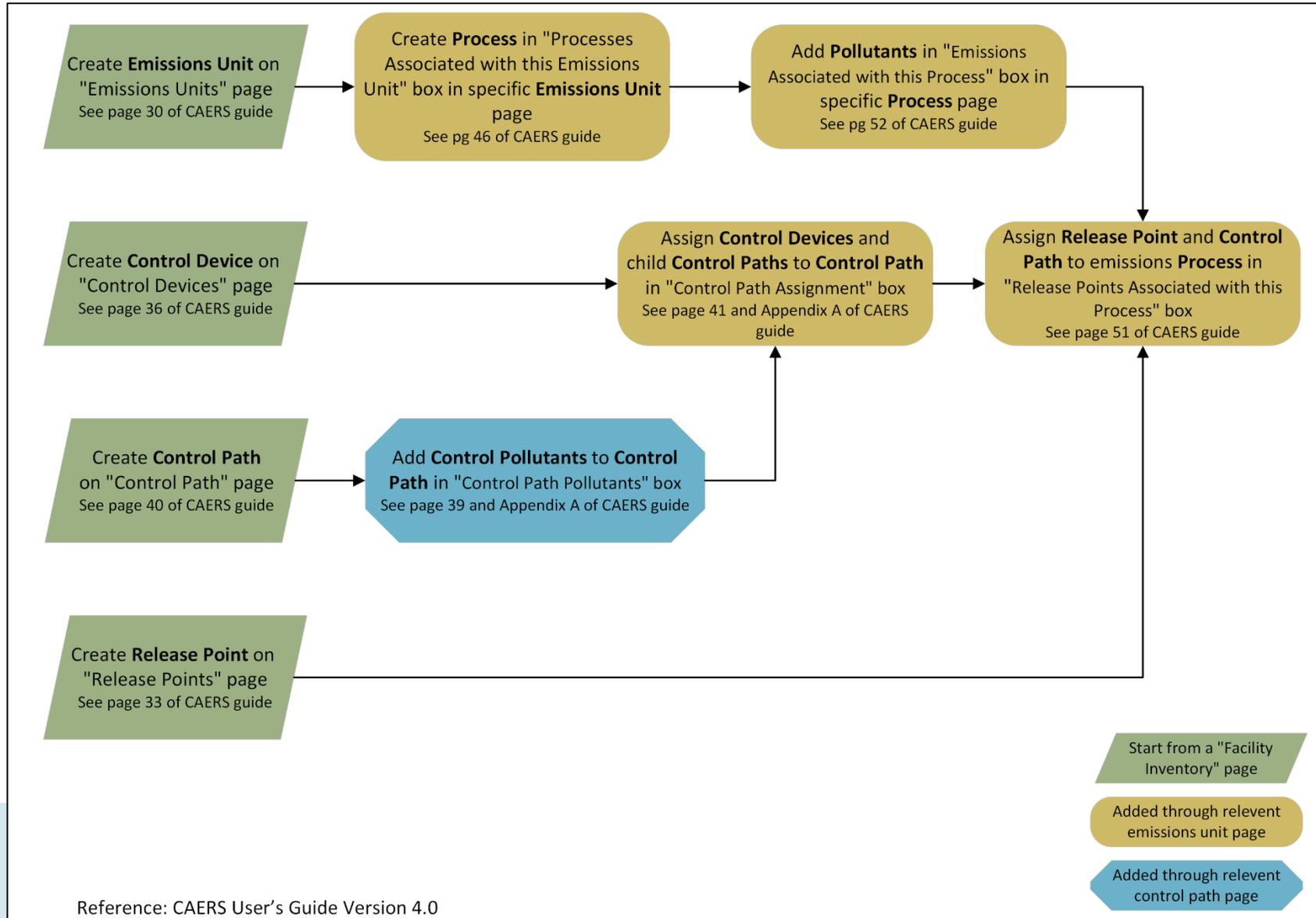
Release Points Associated with this Process

Release Point	Release Type	Control Path	%		
RP-ESP	Vertical	Boiler-ESP	100%		
Total % Apportionment of Emissions			100%		

Note: Each process must allocate exactly 100% of its emissions to one or more release points before the report can be submitted.



HELPFUL TIPS – ENTERING NEW EMISSION UNITS





HELPFUL TIPS - CORRECT CONTROLS ERROR & WARNING

Controls are added to a device through the process page.

- ▼ Emissions Inventory
 - ▼ Units 1-25
 - ▶ 0008
 - ▼ 0401
 - RBH1 <**
 - ▶ 1007
 - ▶ 120-5
 - ▶ CB04
 - ▶ CB05
 - ▶ CB06
 - ▶ CB08
 - ▶ CB09
 - ▶ CB10
 - ▶ CB11
 - ▶ EU0160

1. Processes can be found through the “Emissions Inventory” menu on the left-hand side of the page.

Release Points Associated with this Process

Release Point	Release Type	Control Path	%		
RBH1	Vertical	TestPath	100%		
Total % Apportionment of Emissions			100%		

+

2. Find the “Release Points Associated” section and select the edit button.

Release Point Apportionment

Select a Release Point

RBH1 - RBH1 - #1 Raymond Mill Baghouse

Select a Control Path (optional)

TestPath

% Release Point Apportionment* 100

Save Cancel

3. Add control path in the “Release Point Apportionment” menu.



HELPFUL TIPS – SOURCE CLASSIFICATION CODE (SCC)

Unit ID: B79
 Unit Description: Imp Mill Flash Dryer
 Unit Design Capacity:
 Comments:

Reviewer Comment:

Combustion process should use in-process fuel SCC

- Each process in a unit should have a unique SCC
- Multiple processes of the same unit using the same SCC will result in a warning in CAERS
- Different fuels should have different in-process fuel SCCs (see below for examples)

Processes Associated with this Emissions Unit

Process ID	SCC
Combustion	30502099
Process	30502099

SCC	scc level one	scc level two	scc level three	scc level four	sect
39000602	Industrial Processes	In-process Fuel Use	Natural Gas	Cement Kiln/Dryer	Indu
39000603	Industrial Processes	In-process Fuel Use	Natural Gas	Lime Kiln	Indu
39000605	Industrial Processes	In-process Fuel Use	Natural Gas	Metal Melting	Indu
39000699	Industrial Processes	In-process Fuel Use	Natural Gas	General	Indu
39000701	Industrial Processes	In-process Fuel Use	Process Gas	Coke Oven or Blas	Indu
39000702	Industrial Processes	In-process Fuel Use	Process Gas	Coke Oven Gas	Indu
39000797	Industrial Processes	In-process Fuel Use	Process Gas	General	Indu
39000801	Industrial Processes	In-process Fuel Use	Coke	Mineral Wool Fuel	Indu
39000889	Industrial Processes	In-process Fuel Use	Coke	General	Indu
39000899	Industrial Processes	In-process Fuel Use	Coke	General: Coke	Indu

Bulk Download Options

Download the complete SCC list.

Download List 3.69Mb CSV File

<https://sor-scc-api.epa.gov/sccwebservices/sccsearch/>



HELPFUL TIPS – OPERATING HOURS

- If using the bulk upload template, average days/week, hours/day, and weeks/reporting period must equal hours/reporting period.
 - CAERS will change the reported hours/reporting period to equal the product of the three operating values
 - The change can be seen in the “Report Creation Log”
- Average days/week and average hours/day – up to 3 decimal places
- Average weeks/reporting period & Hours/reporting period - integer

Operating Details				Edit
Avg. Days per Week:	5.675	=	Hours per Reporting Period:	692
Avg. Hours per Day:	2.345		Winter Operating Percent:	25
Avg. Weeks per Reporting Period:	52		Spring Operating Percent:	25
			Summer Operating Percent:	25
			Fall Operating Percent:	25



HELPFUL TIPS – CALCULATION METHOD DOCUMENTATION (1)

Emission Information

Pollutant Name: PM2.5 Filterable

Pollutant Code: PM25-FIL

CAS ID:

Calculation Method: Stack Test (pre-control) plus Control Efficiency

Emission Factor: 0.01125

Emission Factor Notes:

Emission Factor Description: Provide test date, emission factor ratio if applicable, reference of EF ratio, control used during test

Value cannot exceed 100 characters.
Additional explanation can be included in the "Comments" field below.

Emission Factor Condition:

Emission Factor Numerator UoM: LB

Emission Factor Source:

Emission Factor Denominator UoM: E6BTU

Emissions UoM: TON

I prefer to calculate the total emissions of this pollutant.

Comments: Control used during test mentioned above, any other information that can be helpful in reproducing the total emissions

Calculate Emissions Cancel Save

Calculation Method: Source Testing

No control vs control plus control efficiency

- Provide:
- Test date
 - EF ratio, if applicable (include reference)
 - Control info, if applicable

Note 100 character maximum.

Additional room for comments



HELPFUL TIPS – CALCULATION METHOD DOCUMENTATION (2)

Calculation Method: Material Balance

Emission Information

Pollutant: Volatile Organic Compounds VOC

Pollutant Code: VOC

Pollutant Name: Volatile Organic Compounds

CAS ID:

Calculation Method: Material Balance

Material balance data to provide with calculations

PM emissions

- density or specific gravity
- solids content (in weight percent or pounds per gallon), and
- amount of material used.

VOC emissions

- density or specific gravity,
- VOC content or solids content (in weight percent or pounds per gallon), and
- the amount of the material used.

I prefer to calculate the total emissions of this pollutant.

Description of Calculation: Attach material balance calculations in report summary page

Comments:

Cancel Save

Attach material balance calculations in report summary page



HELPFUL TIPS – DATA BULK ENTRY

- If no units/processes have changed, Data Bulk Entry is a great tool to update throughput.
- New this year: throughput & fuel material visible in the Data Bulk Entry feature.
- Ensure both are the same values if entering a fuel material

Data Bulk Entry

NEW

Process Information Emission Information

Unit ID	Process ID	Throughput Material	Throughput Value	Fuel Material	Fuel Value	Previously Reported Throughput Value	% Change in Throughput
14	1	Distillate Oil (Diesel)	1.5 GAL	Distillate Oil (Diesel)	1.5 G/	1 GAL	50.000



ANNUAL REPORT QUALITY REVIEW – ERRORS

Errors required to be corrected to submit data	Suggestion to correction
Total apportionment for all release points associated with this process must equal 100%.	Each process must allocate exactly 100% of its emissions to one or more release points before the report can be submitted.
Emissions Process is not associated with a Release Point. A process must go to at least one Release Point.	Click on "+" sign to add related Release Point and then add apportionment for this stack.
Release Point has not been associated with any process.	Please associate it with a process, remove it if it is brand new, or mark it Temporarily or Permanently Shutdown if it is.
NAICS Code is no longer supported	Please reach out to GA EPD to update that NAICS code.
There must be at least one emission recorded for the Reporting Period when Process Operating Status is "Operating".	If process is operating, add at least one pollutant emissions, otherwise mark this process shutdown or remove it if it is new and not operating yet.
PM2.5 > PM10	Please re-check PM2.5 for the process as compared to PM10 reported because PM2.5 should not be greater than PM10.



ANNUAL REPORT QUALITY REVIEW – WARNINGS

QA warnings	Suggestion to correction
Your state requires that PM2.5 FIL must be reported for a process when PM10 FIL is reported.	Use a PM2.5fil emissions factor from WEBFIRE to calculate emissions; otherwise, let EPD know.
Total emissions for this Emissions Process and Pollutant are the same as your 2021 submission	Explain why emissions are the same or change the emissions.
Release Point has not been associated with any process.	Please associate it with a process, remove it if it is brand new, or mark it Temporarily or Permanently Shutdown if it is.
You have reported zero emissions	Please verify the emissions and may want to revise this value.
Reported Emissions are 20% higher than the value reported in your previous report. Please check your calculations.	Confirm the emissions for the process are accurate. Provide an explanation as to why the emissions have changed significantly (e.g. increased or decreased production, etc.).
UoM and value are the same for both throughput and fuel, so the material is also expected to be the same.	Enter fuel first, then copy over to throughput using the green button 



RESOURCES AND NEXT STEPS



RESOURCES

- **GECO EI Application Training PowerPoint and Recording**

<https://epd.georgia.gov/forms-permits/air-protection-branch-forms-permits/point-source-emissions-inventory#toc-training-resources-2>

- **CAERS User guide**

<https://www.epa.gov/combined-air-emissions-reporting/combined-air-emissions-reporting-system-caers>

- **Past EPA CAERS Webinar Recordings**

<https://www.epa.gov/combined-air-emissions-reporting/combined-air-emissions-reporting-system-caers>



WHAT'S NEXT?

- **EPA Training (January 2024)**
 - Welcome to CAERS: 1/5/24, 2-3pm ET
 - CAERS EI User Interface: 1/9/24 3:30-5pm ET
 - CAERS EI Control Paths: 1/10/24 3:30-5pm ET
 - CAERS EI Bulk Uploading Template 1/16/24 1-2:30pm ET
- Please visit <https://www.epa.gov/combined-air-emissions-reporting/combined-air-emissions-reporting-system-caers> to view the training recordings.
- **Live Virtual Help Sessions (Every Tuesday/Thursday from Feb– July)**
- **There will be no extensions or Help Session after July 15th**
- **QA the EI data as soon as it is submitted**
- **Reach out to the QA'd facilities if any errors or data verifications**



THANK YOU!

Your participation helps us obtain and maintain an accurate emissions inventory for the state of Georgia which is vital to reach our goal of improving our State's air quality.

Thank you for your hard work and cooperation!





QUESTIONS

**Contact us at:
emissions.inventory@dnr.ga.gov**

