

POINT SOURCE EMISSION INVENTORY TRAINING

Presented by Jing Wang
Data & Modeling Unit
Planning & Support Program
Air Protection Branch
Georgia Environmental Protection Division

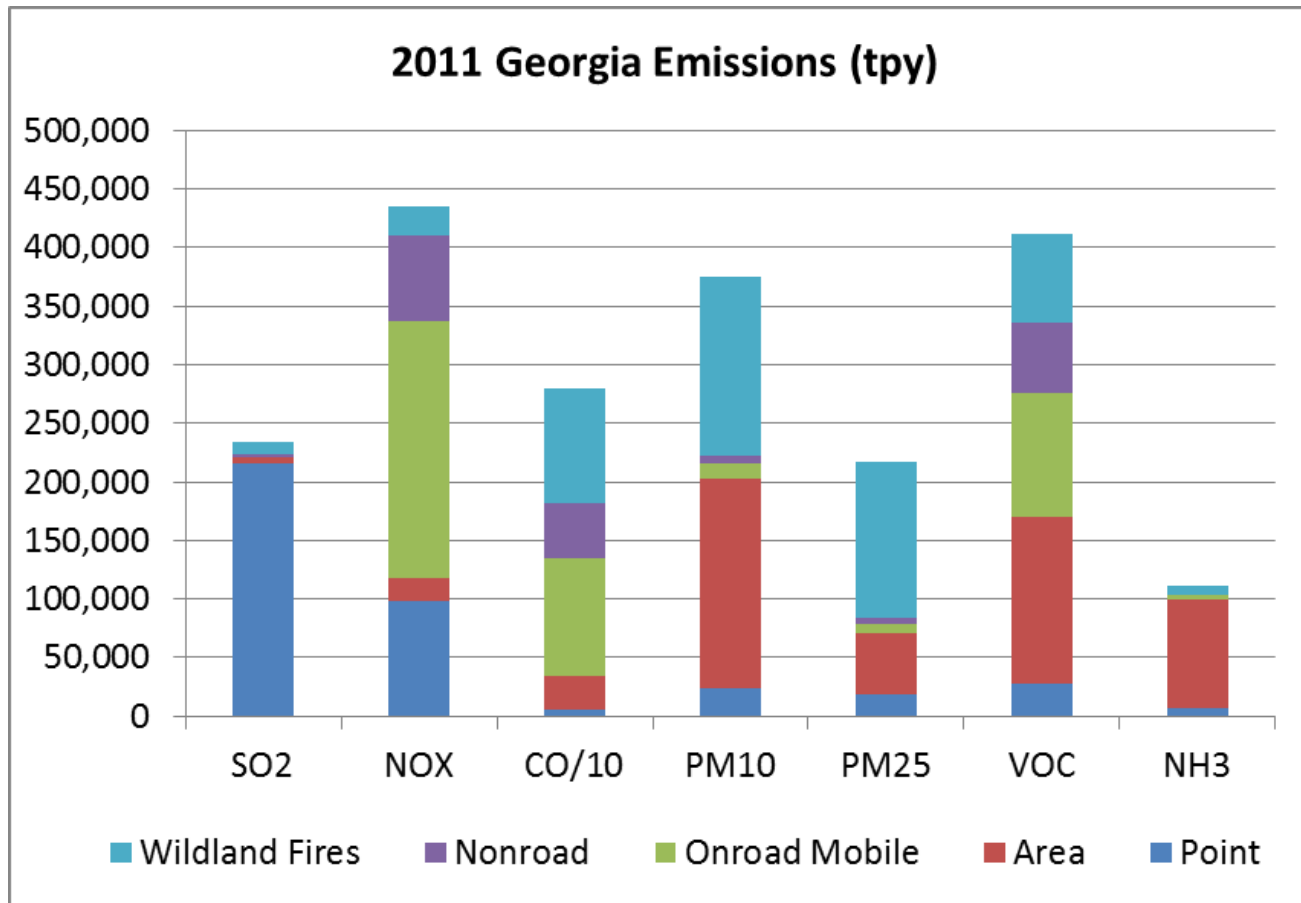
May 25, 2016

2016 EIS Training Outline

- NEI History
- Acronyms
- Collecting Georgia point source emission inventory
 - Georgia Environmental Connections Online (GECO) EIS system (<http://geco.georgiaair.org/EIS/>)
 - Participation, pollutants, and thresholds
 - EIS design concepts
 - Facility Inventory Component
 - Emission Inventory Component
- Example facility submittal

NEI – National Emissions Inventory

- All source categories collected every three years
- Large point sources collected every year



What is the NEI data used for?

- Attainment/nonattainment designations for criteria air pollutants
- State Implementation Plans (SIPs) for attainment and maintenance of the NAAQS
 - Regional photochemical grid modeling
- Rule Development
- PSD permit reviews
 - Local dispersion modeling



Acronyms

- EIS – Emission Inventory System
- FI – Facility Inventory
 - Refers to the information pertaining to the facility equipment and operation (e.g., emission units, release points, and processes)
 - FI does not change from year to year
- EI – Emission Inventory
 - Refers to the information that changes from year to year (e.g., annual emissions, throughputs, and process operating details).

NEI Regulatory History

- 40 CFR Part 51
 - Consolidated Emissions Reporting Rule (CERR) published on June 10, 2002.
 - Replaced the old CERR rule with the Air Emissions Reporting Requirements (AERR) rule issued on December 17, 2008.
 - New revisions to AERR rule was issued on February 6, 2015.
- GA EPD collects the inventory under authority of Georgia Rule 391-3-1-.02(6)(b)(1)

2015 EI Participation

- All Part 70 Major Sources are subject.
- Exceptions
 - Permitted but not constructed
 - Federally Enforceable Permit Limit
 - e.g., Synthetic Minor (SM) sources or Major HAP sources
 - Shutdown during the Calendar Year

El Pollutants Reported

- Ammonia (NH₃)
- Carbon Monoxide (CO)
- Lead (Pb)
- Nitrogen Oxides (NO_x)
- Sulfur Dioxide (SO₂)
- Volatile Organic Compounds (VOCs)
- PM Condensable
- PM₁₀ Filterable
- PM_{2.5} Filterable
- PM₁₀ Primary (Filterable + Condensable)
- PM_{2.5} Primary (Filterable + Condensable)

Potential To Emit (PTE)

- Best PTE Resources
 - Title V Permit Application or Permit Narrative
- PTE Procedures
 - <http://www.georgiaair.org/airpermit/html/otherforms/pteguide.htm>

The screenshot shows a web browser window with the address bar displaying www.georgiaair.org/airpermit/html/otherforms/pteguide.htm. The page header includes the Georgia Department of Natural Resources logo and contact information for the Environmental Protection Division, Air Protection Branch. The main content area is titled "Procedure to Determine a Facility's Potential to Emit (PTE) & Its Classification" and states that the 1994 PTE determination procedures have been updated and replaced by the August 2008 version. A link is provided to "Download the August 2008 PTE Procedures (pdf)". The left sidebar contains a navigation menu with links for "GECO Login", "Hot Topics", "Services and Resources", "Air Quality Rules", "Public Meetings & Hearings", "Public Affairs & Outreach", "Permits & Title V Applications", "Search GeorgiaAir.org", "Browse By Program", "Ambient Monitoring", "Mobile and Area Sources", "Planning & Support", "Stationary Source Compliance", "Stationary Source Permitting", "Source Monitoring & Testing", "Other Resources", "Emissions Credits & Banking", and "Title V Software & Other info". The footer of the page lists links for "State of Georgia", "Georgia Department of Natural Resources", "Georgia EPD", and "Contact us".

Georgia Department of Natural Resources
Environmental Protection Division, Air Protection Branch
4244 International Parkway, Suite 120
Atlanta, Georgia 30354
(404) 363-7000 • Fax: (404) 363-7100

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Directions to the Air Protection Branch

**Procedure to Determine a Facility's
Potential to Emit (PTE) & Its Classification**

The 1994 PTE determination procedures have been updated and replaced by the August 2008 version.
Please refer to the August 2008 version for all future determinations.

[Download the August 2008 PTE Procedures \(pdf\)](#)

[State of Georgia](#) [Georgia Department of Natural Resources](#) [Georgia EPD](#) [Contact us](#)

GECO Login
Hot Topics
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Stationary Source Permitting
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Particulate Matter

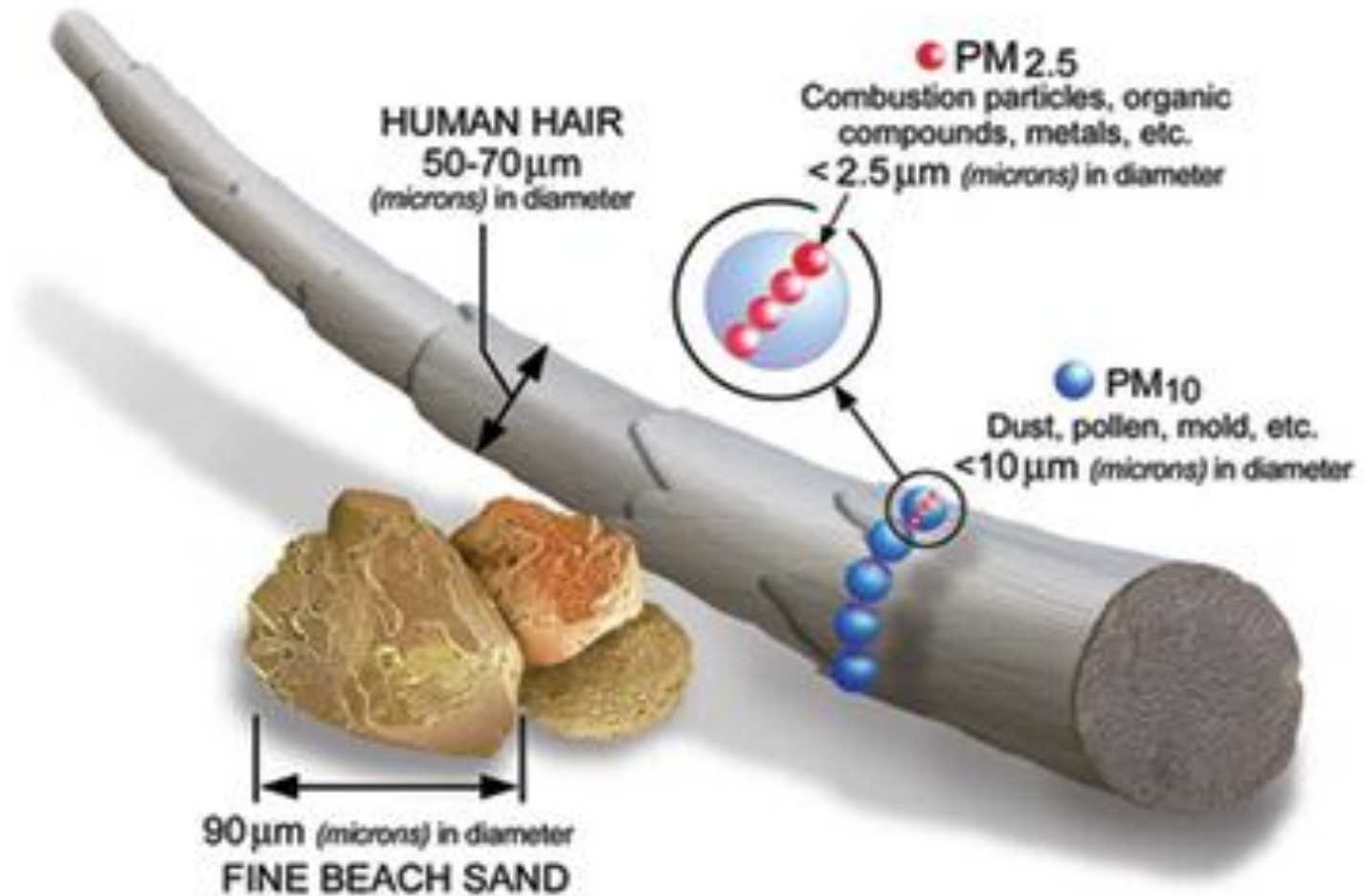
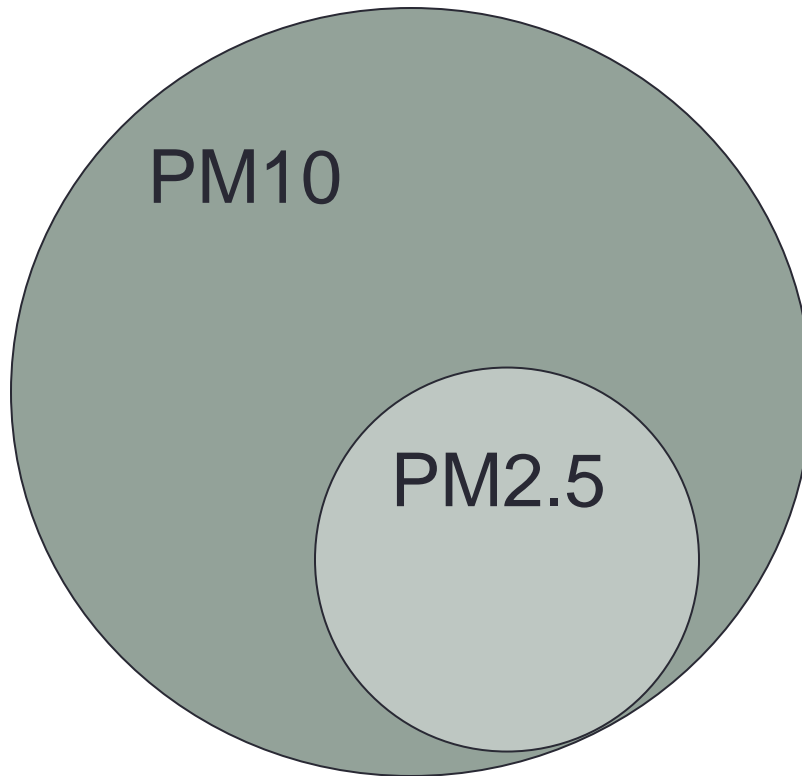


Image courtesy of the U.S. EPA

PM Discussion



PM₁₀ - Particles less than 10 micrometers in diameter.

PM_{2.5} - Particles less than 2.5 micrometers in diameter.

Particle Reporting Distinction

1. Primary (PRI) – Primary particles emitted directly into the air from a source.
 - Includes filterable and condensable components.
2. Filterable (FIL) – Filterable particles include any particulate matter that may be physically captured on a filter during sampling.
3. Condensable (CON) – The matter in the gas phase which condenses to sub-micron particles after cooling.
 - All condensable PM is smaller than 2.5 microns in diameter, so PM-CON represents condensable matter for PM, PM10, and PM2.5.

PM Discussion

- PM2.5 is a subset of PM10, therefore PM2.5 can never be greater than PM10
 - $PM_{10-PRI} \geq PM_{25-PRI}$
 - $PM_{10-FIL} \geq PM_{25-FIL}$
- Primary PM = Filterable PM + Condensable PM
 - $PM_{10-PRI} = PM_{10-FIL} + PM-CON (\pm 1 \text{ Ton})$
 - $PM_{25-PRI} = PM_{25-FIL} + PM-CON (\pm 1 \text{ Ton})$
 - $PM_{10-PRI} \geq PM_{10-FIL}$
 - $PM_{25-PRI} \geq PM_{25-FIL}$
 - $PM_{10-PRI} \geq PM-CON$
 - $PM_{25-PRI} \geq PM-CON$

2015 EI Thresholds

Pollutant	Thresholds (potential tons per year)
VOC	≥250
SO ₂	≥2500
NO _x	≥2500
CO	≥2500
Lead	Not Applicable
PM _{10_Primary}	≥250
PM _{2.5_Primary}	≥250
NH ₃	≥250

EIS Summaries

- Provide simple lists of EIS information

Release Point Summary - GEC... x +

gco.georgiaair.org/EIS/releasepoint_summary.aspx

emissions inventory

Air Protection Branch

Welcome, Jing Wang | Airs No.:G3900001
Facility: Durango-Georgia Paper Company

Facility Home My Home **Training** Contact Us Sign Out

Home

- Facility Inventory
 - Facility & Contact Info
 - Release Points
 - Emission Units
 - Processes
- Emission Inventory
 - Emissions Reporting
 - Process Bulk Entry
 - Pollutant Bulk Entry
 - Submit EI
 - Reset EI Data
- Help & Reports
 - Facility Inventory Help
 - Emission Inventory Help
 - Reports

EIS Change Log

Active Fugitive Release Points

Fugitive ID	Fugitive Description	Operating Status	Last EPA Submittal
999TES	DSFS	Operating	
99TEST	test	Operating	
CV01E	Fugitive from conveyors	Operating	
FUG100	test fugitive	Operating	
FUGBG	TEST	Operating	
FUGNEW	Test Fug	Operating	
FUGSTK	test	Operating	
ST999	Desc	Operating	
STTEST	Desc	Operating	
TESTFW	desc	Operating	
TESTIN	description	Operating	

Active Stack Release Points

Stack ID	Stack Description	Release Point Type	Stack Height (feet)	Gas Flow Rate (ACFS)	Operating Status	Last EPA Submittal
501A	Kiln No. 1 Stack Test	Vertical	200	0.1	Operating	6/2/2010
501B	Kiln No. 2 Stack	Vertical	102	55	Operating	6/2/2010
501D	deduplicated description	Vertical	35	36.7	Operating	

gco.georgiaair.org/EIS/rp_process_bulk.aspx

EIS Details

- Provide details about specific EIS info and how it relates to the FI and EI

Air Protection Branch

Welcome, Jing Wang | Airs No.:03900001
Facility: Durango-Georgia Paper Company

Facility HomeMy Home**Training**Contact UsSign Out

Home
Facility Inventory
Facility & Contact Info
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Emission Units
Processes
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Reports

EIS Change Log

Fugitive Release Point Details

Summary

Fugitive Release Point

AddDuplicateEdit

Fugitive ID:	999TES
Fugitive Description:	DSFS
Fugitive Operating Status:	Operating as reported in 2013
Fence Line Distance (ft):	5
Fugitive Height (ft):	6
Fugitive Width (ft):	4
Fugitive Length (ft):	5
Fugitive Angle (0 - 89):	88
Comment:	
Last Submitted to EPA:	Never submitted
Last Updated On:	02/02/2016 08:26am by Jing Wang

EIS Edits

- Allows information on the Details pages to be Edited.
- Note some Details pages have multiple Edit options.

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Reports

EIS Change Log

Edit Fugitive Release Point Details

Summary

Fugitive Release Point

SaveReturn to Details

Fugitive ID:	999TES	
Fugitive Description:	DSFS	
Fugitive Operating Status:	Operating	Status cannot be changed as release point is in a release point apportionment.
Fence Line Distance (ft):	5	
Fugitive Height Measure (ft):	6	
Fugitive Width Measure (ft):	4	
Fugitive Length Measure (ft):	5	
Fugitive Angle Measure (0 - 89):	88	
Comment:		

Release Point Apportionments

The Release Point cannot be deleted. Either delete the process or add another release point to the apportionment before deleting the remaining release point. See Help for more details.

EIS Pre-Populate

- EI can be pre-populated from past years that are in the EIS system, currently that is 2011 - 2014.
- Annual process throughput and emissions values (annual or summer-day) are not pre-populated.

The screenshot shows a web browser window with the URL `http://geco.geo...rp_prepop.aspx`. The page title is "Air Protection Branch". The user is logged in as "Jing Wang" with "Airs No.:03900001" and is at the "Facility: Durango-Georgia Paper Company". The navigation bar includes "Facility Home", "My Home", "Training", and "Co". The left sidebar has links for "Home", "Help & Reports", "Facility Inventory Help", "Emission Inventory Help", "Reports", and "EIS Change Log". The main content area is titled "Emission Inventory Prepopulation" and contains the following text: "The facility will be participating in the Emissions Inventory process." and "You may choose to have the Emissions Inventory prepopulated with data from a previous year. If you wish to skip this option and begin with blank forms, choose 'Do not prepopulate' in the list and click 'Continue.'". Below this text is a section titled "What would you like to do?" with a dropdown menu labeled "Choose the year: -Make Selection-" and a "Continue" button.

EIS FI Access and EI Access

- The FI is always available except during the EPA Submittal.
- The EI is only available for editing during specific Reporting Period Event.

The screenshot shows the GEICO Emission Inventory System web application. The browser address bar displays 'geico.georgiaair.org/EIS/default.aspx'. The page header is blue with the text 'Air Protection Branch' and a welcome message for 'Jing Wang' (Airs No: 03900001, Facility: Durango-Georgia Paper Company). Navigation links include 'Facility Home', 'My Home', 'Training', 'Contact Us', and 'Sign Out'. A left sidebar contains a 'Home' section with links to 'Facility Inventory', 'Emission Inventory', 'Reset EI Data', and 'Help & Reports'. The main content area is titled 'Emission Inventory System' and includes a welcome message, key features, and a large green box indicating the '2014 Emission Inventory - In Progress' status. The green box also contains a 'Facility Home' button and a status summary for the Durango-Georgia Paper Company.

GEICO Emission Inventory System

geico.georgiaair.org/EIS/default.aspx

Air Protection Branch

Welcome, Jing Wang | Airs No: 03900001
Facility: Durango-Georgia Paper Company

Facility Home My Home **Training** Contact Us Sign Out

Home

- Facility Inventory**
 - Facility & Contact Info
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 - Emission Units
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 - Emissions Reporting
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 - Emission Inventory Help
 - Reports

EIS Change Log

Emission Inventory System

Welcome to the Georgia Emission Inventory System. Due to recent changes in the regulatory requirements for the national emission inventories, the method of collecting the annual emission inventories has changed.

Key features - change in applicability definitions and the concept of a facility inventory and an emissions inventory.

- Applicability changed to require that facilities whose potential emissions exceed the thresholds must report their actual emissions.
- The Facility Inventory (FI) will remain open all year and can be updated at any time. The Facility Inventory contains the following components: Facility Site Details, Emission Units, Stacks, and Processes.
- The Emission Inventory (EI) is only available for data submittal during the specified submittal periods. The Emission Inventory contains the following components: Process Reporting Period Details and Reporting Period Emissions.

2014 Emission Inventory - In Progress

Facility Home

The facility is currently in the process of completing the Emission Inventory for the 2014 calendar year. Use the menu on the left to continue working on the EI. At any time during the EI process you may choose to reset the EI data and start again from the beginning of the process. The reset process cannot be undone.

Facility Name: Durango-Georgia Paper Company
Facility AIRS No: 03900001
Status: In progress

EIS Status Tracking

- The EIS Home Page Status area will provide details about what areas are available.

Welcome, Jing Wang | Facility: Durango-Georgia Paper Company | AIRS No: 03900001

[Applications](#) [Training](#) [My Home](#) [Contact Us](#) [Sign Out](#)

Welcome to the Facility Specific page. If you are in any GECO application and desire to return to the Facility Home page, select Facility Home in the right-hand navigation menu.

Facility Home Options

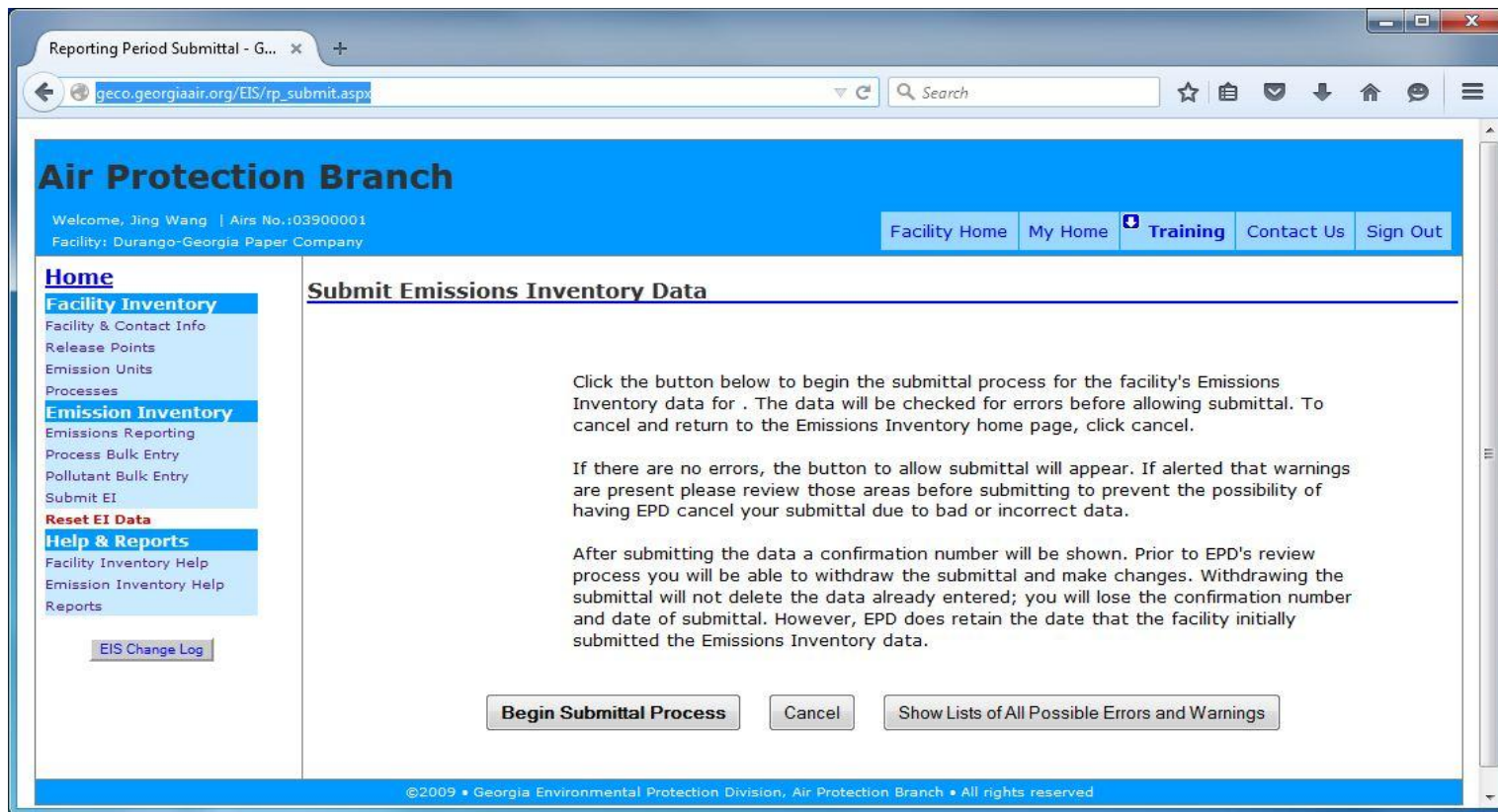
Online Application Status [Facility Summary](#) [Air Programs](#)

[Admin/User Tools](#)

Application	Current Status	Deadline	Current Contact
Emission Fees	In Progress - Please Complete the Fees for 2012 on 3/18/2014	9/3/2013	Jing Wang
Emissions Inventory	EI in progress	8/1/2016	Jing Wang

EIS Submittal Checks - Errors

- Errors are required to be fixed before final submission.



EIS Submittal Checks - Warnings

- A “warning” refers to data that may need to be addressed, but not required to be fixed.

The screenshot shows a web browser window with the URL geco.georgiaair.org/EIS/rp_submit.aspx. The page is titled "Reporting Period Submittal - G..." and features a blue header for the "Air Protection Branch". Below the header, a welcome message for "Jing Wang" is displayed, along with the facility name "Durango-Georgia Paper Company". Navigation links include "Facility Home", "My Home", "Training", "Contact Us", and "Sign Out".

The left sidebar contains a "Home" section with links to "Facility Inventory", "Emission Inventory", "Reset EI Data", and "Help & Reports". The main content area is titled "Submit Emissions Inventory Data" and "Emissions Inventory Submittal Check Results". It contains a message stating that errors were found in the Emissions Inventory data and need to be addressed prior to submittal. A red banner indicates: "Errors and/or warnings were found in the data. Address the errors and warnings and submit again." Below this, there are two buttons: "Go to EI Home Page" and "Show Lists of All Possible Errors and Warnings".

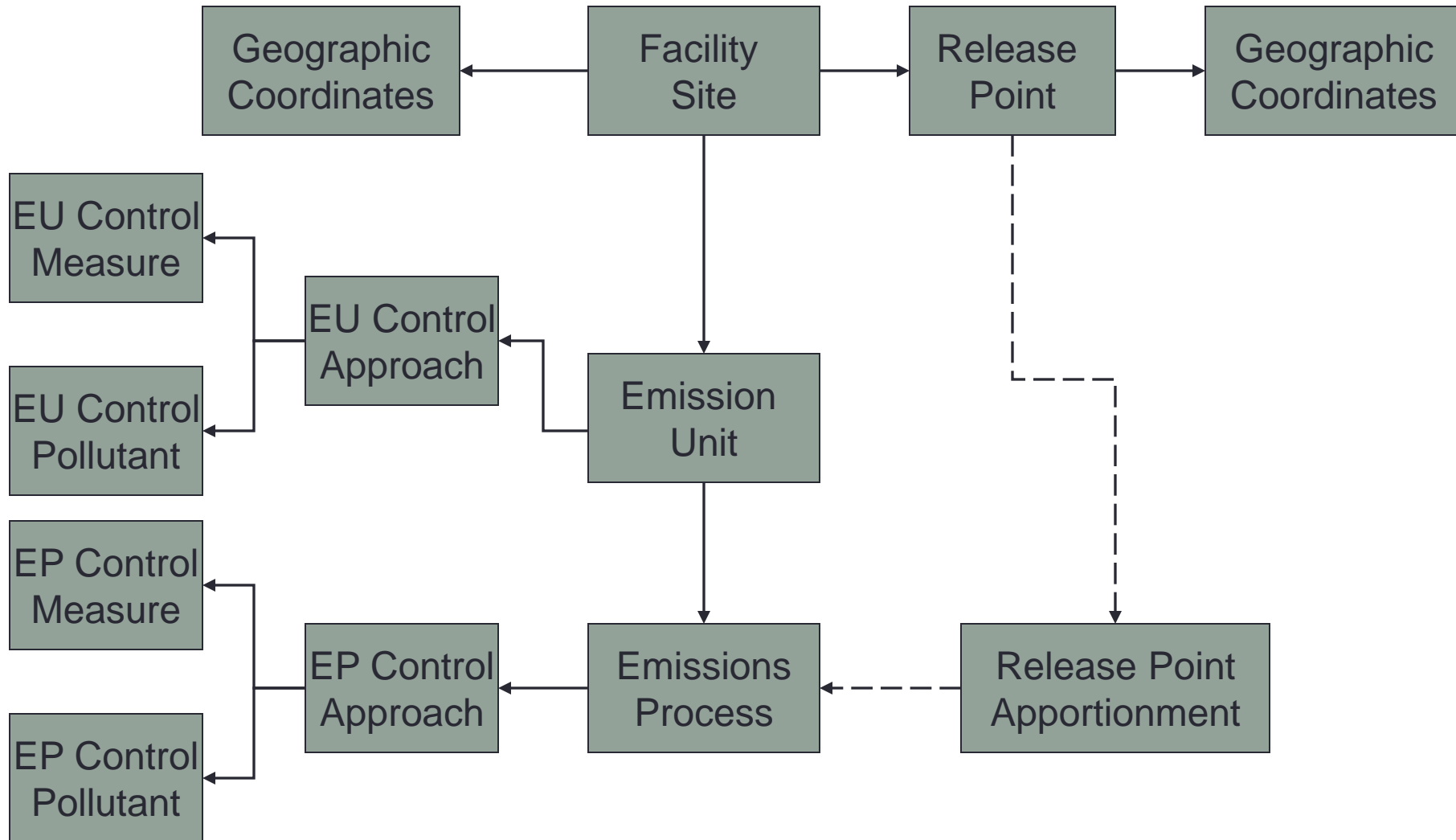
The "Error List" section shows two errors:

- E09 - Multiple Fugitive release points have the same geographic coordinates.**

Fugitive ID	Description	Latitude	Longitude
99TEST	test	30.73401	-81.54132
SITEST	Desc	30.73401	-81.54132
- E20 - Emission units operating but not in Reporting Period.**

Emission Unit ID	Description
500C	Kiln No. 3
998DF	dffdfdf
999EU	Desc
ADD46	temp 2
ANODA	Desc
B010	Small Boiler Augusta
CV01	Coneyor

EIS Facility Inventory (FI)



Facility Inventory

- Physical assets of the Facility
 - Release Points - Two types
 - Stacks - single emission release point site
 - Fugitives- release point area (e.g. tank or conveyors)
 - Emissions Units
- Operational Assets of the Facility
 - Processes
 - Control Approaches
 - Control Measures
 - Control Pollutants

Emission Units

- Physical pieces of equipment, usually a Title V Significant Emission Unit.
- FI does not readily allow for Emission Unit Groups
- Emission Unit Control Approach

The screenshot shows a web browser window with the address bar displaying `geico.georgiaair.org/EIS/emissionunit_details.aspx?eu=500A`. The page title is "Emission Unit Details - GEICO F...". On the left is a navigation menu with links: Home, Facility Inventory (Facility & Contact Info, Release Points, Emission Units, Processes), Emission Inventory (Emissions Reporting, Process Bulk Entry, Pollutant Bulk Entry, Submit EI), Reset EI Data, Help & Reports (Facility Inventory Help, Emission Inventory Help, Reports), and EIS Change Log. The main content area is titled "Emission Unit Details" and has a "Summary" button in the top right. It is divided into three sections: "Emission Unit", "Emission Unit Control Approach", and "Emissions Unit Control Measures".

Emission Unit

Emission Unit ID:	500A
Emission Unit Description:	Kiln No. 1
Unit Type:	Mixer
Operating Status:	Operating
Unit Placed In Operation:	12/01/2012
Comment:	This is a comment.TETEEteetet j
Last Submitted to EPA:	06/02/2010
Last Updated on:	04/13/2015 10:46am by Jing Wang

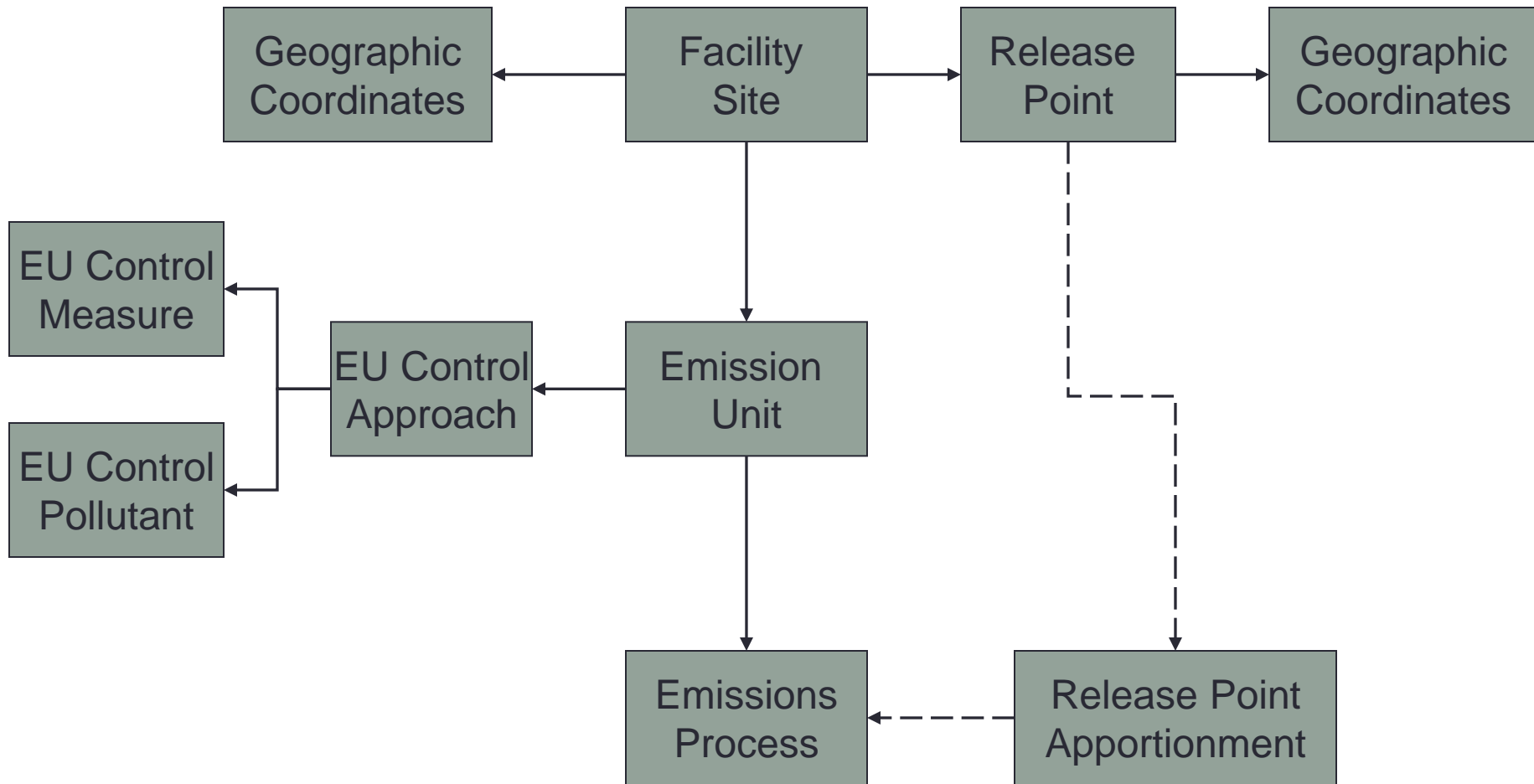
Emission Unit Control Approach

Control Approach Description:	Mixer Control
Percent Control Approach Capture Efficiency:	
Percent Control Approach Effectiveness:	
First Inventory Year:	
Last Inventory Year:	
Control Approach Comment:	
Last Updated on:	04/13/2015 10:47am by Jing Wang

Emissions Unit Control Measures

Control Device	Last EPA Submittal
----------------	--------------------

FI with Unit Control Approach



Emission Processes

- Still using Source Classification Codes (SCC)
 - Added a Cascading-dropdown for SCC selection
- Release Point Apportionment
- Process Control Approaches

The screenshot shows a web browser window with the URL `geco.georgiaair.org/EIS/process_details.aspx?eu=500A&ep=1`. The page title is "Process Details - GEICO Facility ...". The left sidebar contains a navigation menu with the following items: Facility & Contact Info, Release Points, Emission Units, Processes, **Emission Inventory** (highlighted), Emissions Reporting, Process Bulk Entry, Pollutant Bulk Entry, Submit EIS, **Reset EIS Data** (highlighted), **Help & Reports** (highlighted), Facility Inventory Help, Emission Inventory Help, and Reports. Below the menu is a link for "EIS Change Log".

The main content area is titled "Process" and contains the following fields:

- Emission Unit ID: 500A
- Emission Unit Status: Operating
- Emission Unit Description: Kiln No. 1
- Process ID: 1
- Process Description: Lumber dried
- Source Classification Code: 30901007
- Process Comment:
- Last Submitted to EPA: 12/20/2012
- Last Updated On: 03/01/2013 12:51pm by Noel DoHarris

Below these fields is a section titled "Release Point Apportionment Information" with an "Edit" button. It contains a table with the following data:

Release Point ID	Release Point Description	Release Point Type	Apportionment %	Last Submission to EPA
501B	Kiln No. 2 Stack	Vertical	100%	

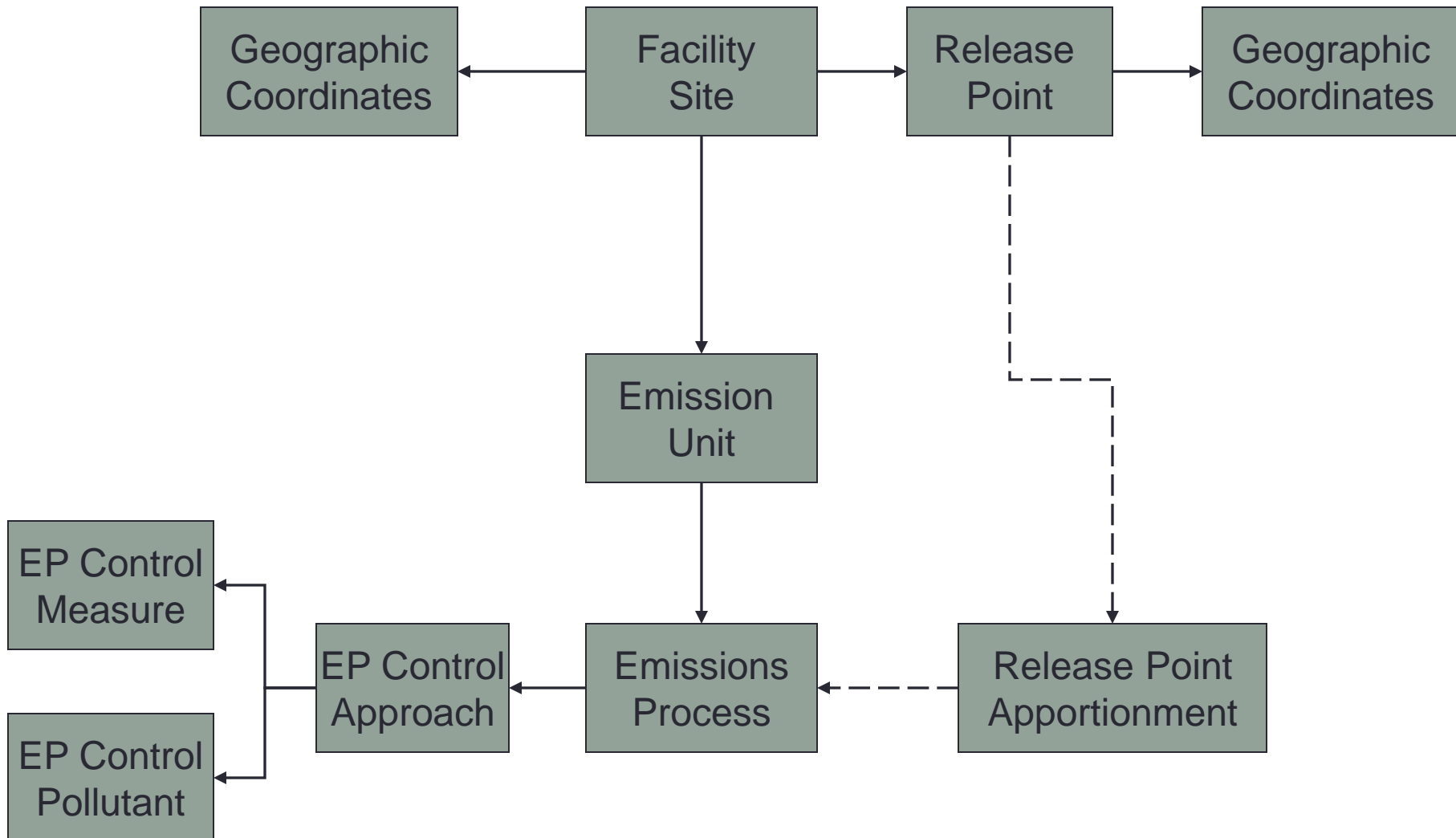
Below the table is a section titled "Process Control Approach" with the text: "An Emission Unit Control Approach exists, no Process Control Approach can be added."

Below that is a section titled "Annual Reporting Period Emissions" with a table showing emissions data:

Pollutant	Reporting Period Type	2014	2013	2012	2011	2010
Volatile Organic Compounds	Annual	No Data	No Data	12.5	No Data	5

At the bottom of the main content area is a "Summary" button. The footer of the page reads: "©2009 • Georgia Environmental Protection Division, Air Protection Branch • All rights reserved."

FI with Process Control Approach



Release Point Apportionment

- Allows for multiple Release Points to be added to a Process
- Based on a **Percentage**, a process can be directed to multiple Release Points
- By default, all processes are required to have one release point with 100% of the emissions going to that release point
- From the Process Details page, additional Apportionments can be added

Control Approach

- Control Approach describes the method in which pollutants are controlled by defined measures for an emission unit or a process
 - Control Measure
 - List of control devices or technologies used in a control approach
 - Control Pollutant
 - List of pollutants controlled by a control approach

Control Approach (cont'd)

- An Emission Unit Control Approach applies to all Processes including the emission unit
- A Process Unit Control Approach applies to only the single Process
- An Emission Unit can NOT have both a process and an emission unit control approach

Control Approach Parameters

- **Capture Efficiency**

- The percentage of air emission that is directed to the control equipment, or an estimate of that portion of an affected emissions stream that is collected and routed to the control measures, when the capture or collection system is operating as designed.

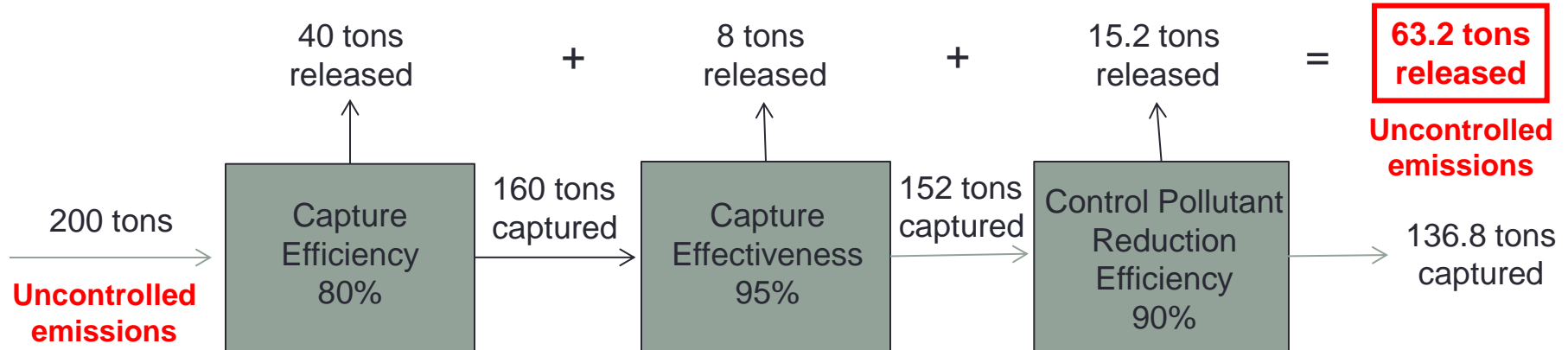
- **Capture Effectiveness**

- The amount of time, expressed as a percentage, that the captured air emissions were directed to the operating control scenario or uptime. The effectiveness should reflect control equipment downtime and maintenance degradation.

- **Control Pollutant Reduction Efficiency**

- The estimated average percent reduction achieved for the captured pollutant when all control measures are operating as designed.

Control Approach Diagram

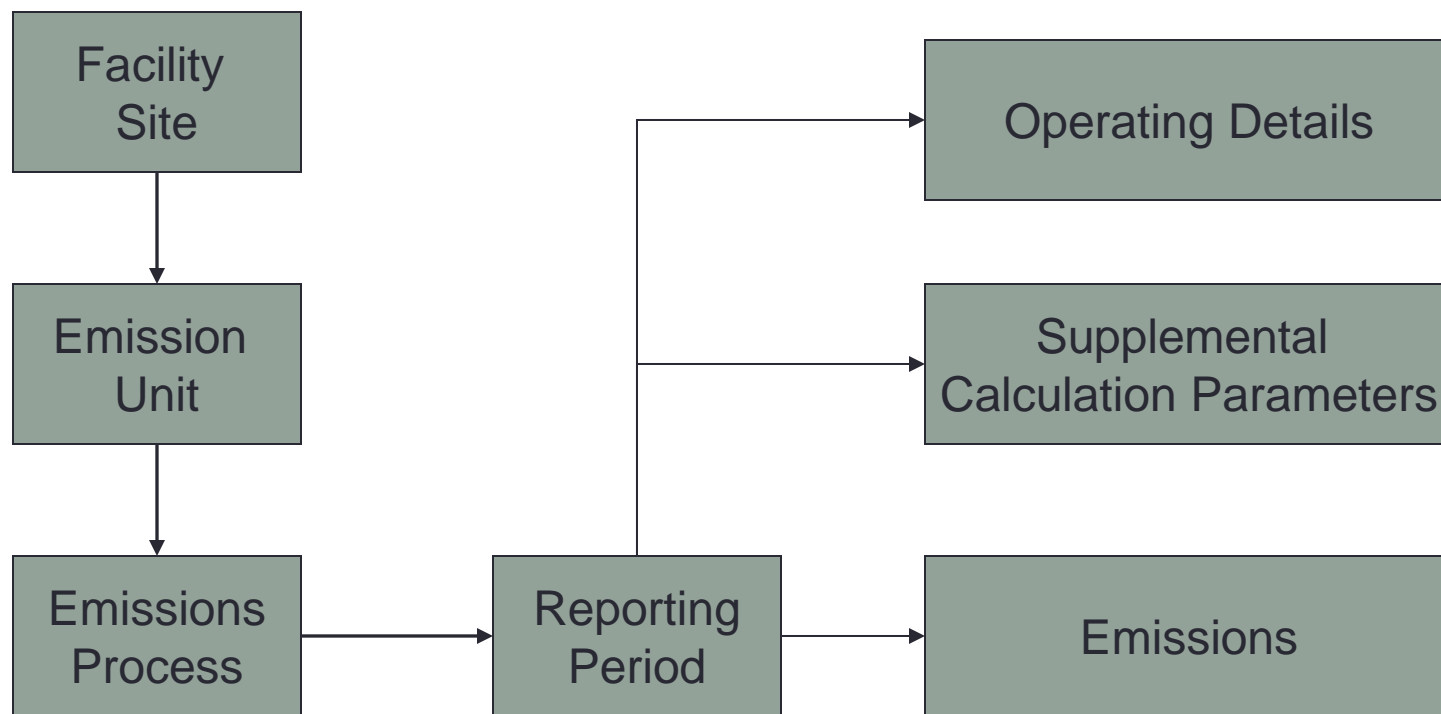


Capture Effectiveness = 95% = $(2000 - 100) / (2000)$

- Emissions Process or Unit ran for 2000 hours
- The Control Scenario was operationally down for 100 hours.

Uncontrolled emissions = Uncontrolled emissions x (1 – [Capture Efficiency x Capture Effectiveness x Control Pollutant Reduction Efficiency])

EIS Emission Inventory (EI)



Emission Inventory (EI)

- The EI is the submission of process and emission information for a given reporting period (e.g., calendar year, summer day emissions).
- All emission information is associated with a process from the FI.
- Components
 - Participation Process
 - Reporting Period Operating Details
 - Reporting Period Emissions
 - Annual Submittal

EI Participation

- Basic Facility Information must be checked
- Operating Status information must be confirmed
- PTE Information
- Comments section on Participation

The screenshot shows a web browser window with the URL `geco.georgiaair.org/EIS/rp_facilitystatus.aspx`. The page title is "Air Protection Branch". The user is logged in as "Jing Wang" with "Airs No.: 03900001" and the facility is "Durango-Georgia Paper Company". The navigation bar includes "Facility Home", "My Home", "Training", "Contact Us", and "Sign". The left sidebar has "Home", "Help & Reports", "Facility Inventory Help", "Emission Inventory Help", "Reports", and an "EIS Change Log" button. The main content area is titled "Facility Operational Status" and contains a form with the following elements:

- A question: "Did the facility operate at any time during calendar year 2014?" with radio buttons for "Yes" (selected) and "No".
- A dropdown menu for "Current Facility Status?" set to "Operating".
- A text input field with the placeholder "Type optional comments here".
- A note: "If the facility did not operate during 2014 the facility will not participate in the Emissions Inventory process."
- A "Continue" button at the bottom.

EI Emissions Reporting

- Summary page that lists all processes in the FI not in the Reporting Period and all processes in the EI Reporting Period

Reporting Period Summary - G... x

geco.georgiaair.org/EIS/rp_summary.aspx

pm10 definition epa

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EIS Change Log

Process Reporting Period Summary

Processes in the 2014 Reporting Period

Emission Unit ID	Process ID	Process Description	Control Approach	Last EPA Submittal	
500A	1	Lumber dried	Unit	Not Submitted	Remove
500A	2	test	Unit	Not Submitted	Remove

Processes NOT in the 2014 Reporting Period

Emission Unit ID	Process ID	Process Description	Control Approach	Last EPA Submittal		
500A	10	Kiln - Oil	Unit	Not Submitted	Add	Prepopulate
500A	1A	test	Unit	Not Submitted	Add	Prepopulate

- New processes added to the FI for the first time, will have to be added to the Reporting Period individually.

El Reporting Period Operating Details

- Process Operating Details
 - Calculation Parameter Type
 - Migration Default is Existing
 - Actual Annual/Throughput Activity
 - Material Processed or Fuel Used
- Daily, Weekly, Annual Information
 - No Changes as before
- Seasonal Operational Percentages
 - No Changes as before
- Fuel Burning Information
 - No Changes as before

El Emissions Edit

- Summer-Day Emissions added for facilities in the 20-county Non-Attainment Area that emit NOx and VOC
 - Summer Day emissions are the average daily emissions of VOC or NOx during the period May 1 through September 30
- Additional Emission Calculation Methods
 - Only those that indicate emission factor require the emission factor information
- Emission Factor Resource
 - EPA webFIRE: <http://cfpub.epa.gov/webfire/>
 - Need a valid SCC to search

AERR Summary

- Emission Thresholds
 - Threshold values stayed the same
 - Threshold values are now based on Potential emissions for all pollutants, except Lead
 - Continue to report Actual controlled emissions
- Reporting Time Frame
 - States are required to report to EPA on December 31 of the following calendar year.
 - 2015 CY emissions will be reported to EPA by December 31, 2016.
 - **Facilities must report emission to GA EPD by August 1, 2016!**

Past Problems

- **Stack Diameter:** For non-round stacks, the equivalent diameter equals the square root of the cross-sectional area in square feet multiplied by 1.128.

$$\text{Equivalent Diameter} = 1.128 \cdot \sqrt{\text{Cross Sectional Area}}$$

- **Exit Gas Flow Rate:** Numeric value of the stack exit gas flow rate is in actual cubic feet per second (acfs).

"*Calculated exit gas flow rate*" means the value calculated using the following formula (D = diameter; v = exit gas velocity):

$$\frac{\pi D^2 v}{4}$$

Questions

- Emission Groups/Grouping for insignificant units?
 - **Answer:** FI does not readily allow for EU groups.
 - Insignificant emissions < 0.001 tons/year
- If a facility is in for one pollutant is it in for all pollutants?
 - **Answer:** Yes.
- Any other questions?

Contact Information

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