Point Inventory

EIS and the NEI

- Emission Inventory System (EIS)
  - Data repository for air emissions data used to create the NEI
  - Contains State, Local, Tribal and EPA submitted data
  - Can be multiple emissions values for the same unit/process
  - Annual, monthly, daily data
  - Data available via a password-protected web site
    - EIS Gateway https://eis.epa.gov/eis-system-web/welcome.html
- National Emission Inventory (NEI)
  - Snapshot in time from EIS
  - Inventory version shared with the public
  - One emissions value per process selected
  - Annual emissions values

S/L/T Reporting

- Criteria Pollutants Required by Air Emissions Reporting Rule (AERR) http://www.epa.gov/ttn/chief/aerr/
  - Complete criteria pollutant inventory every 3 years
    - All point sources (100 tpy potential to emit threshold)
    - Nonpoint sources
    - Onroad and Nonroad sources
    - Events (wildfires and prescribed fires)
    - **2011 Emissions due 12/31/2012, EIS window opens 6/1/2012**
  - Annual reporting for type A point source facilities
    - SO2, NOx, CO with potential to emit ≥ 2,500 tpy
    - VOC, PM, NH3 with potential to emit ≥ 250 tpy
    - Pb with potential to emit ≥ 5 tpy (to be amended to agree with Lead NAAQS level of ≥ 0.5 tpy)
- HAPs are submitted voluntarily by many S/L/Ts and are encouraged as part of an integrated report
  - EPA plans to gap fill HAP emissions where missing (e.g., TRI, rule data)

Uses of the NEI

- The NEI is one of the key inputs for:
  - Modeling of national rules – NAAQS reviews, CSAPR, etc
  - Non-attainment Designations
  - NATA Review – toxics risk modeling
  - Trends reports and analyses

Components of the EIS

- Six different data categories
  - Facility Inventory
  - Point Emissions
  - Nonpoint Emissions
  - Onroad Emissions
  - Nonroad Emissions
  - Event Emissions (wildfires and prescribed fires)

  No biogenic emissions, although these are part of EPA's modeling files

What is the Point Inventory?

- Emissions estimates for the facility inventory
  - By pollutant
  - By process
  - By inventory year/reporting period (e.g., 2011 annual)
- In addition to emissions, point data may include
  - Throughput (by process and inventory/year reporting period)
  - Operating details
  - Supplemental parameters

Important Concepts (1)

- Emissions may only be reported for an existing process
  - Existing process cannot have a Process End Year prior to inventory year
  - Unit from existing process should be operating in inventory year (PS ok if it is PS in 2012 and you are submitting 2011…)
  - SCC code for process must be a valid one
- All pollutants for a given process must be reported together
  - 2008 inventory cycle pitfall: Some agencies inadvertently re-submitted just some pollutants and as a result, all other pollutants were wiped out
  - Each submittal overwrites the last for a given process
  - You can submit different facilities or different processes at a facility in separate submittals

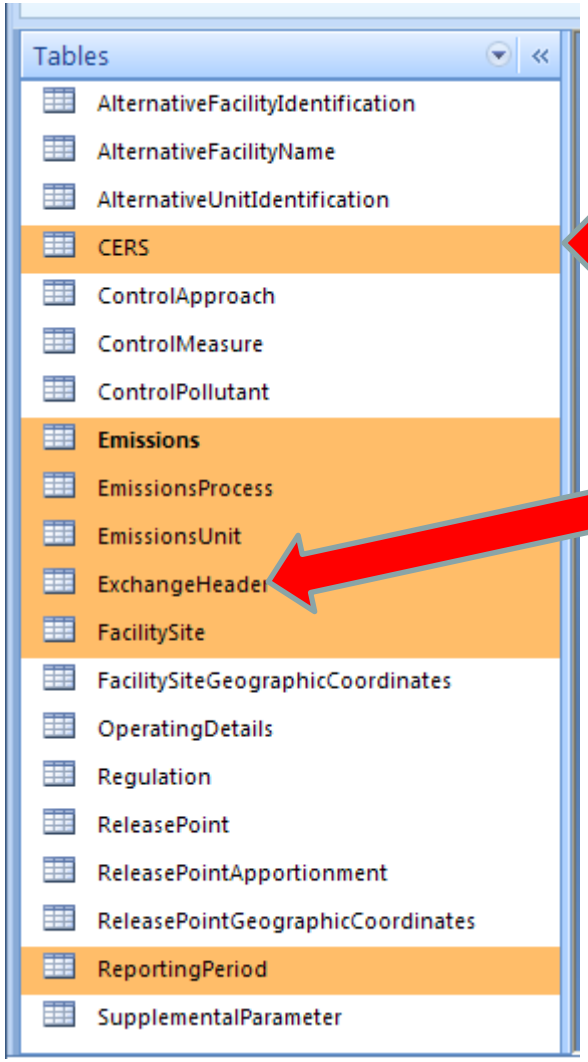
Important Concepts (2)

- Your emissions will **NOT** be adjusted by EPA
  - For the 2008 NEI, EPA speciated SLT chromium
  - To get it into the NEI, we submitted the speciated chromium as a SEPARATE EPA dataset
  - The SLT unspeciated chromium is in EIS, it is in your dataset
- EIS can support emission values from multiple sources
- Can use LB, TON or metric to submit emissions-
  - EIS reports show HAPs in LB and CAPs in TON
- Report controlled emissions, not uncontrolled
  - We have seen control/capture/effectiveness values of 100% for processes with non-zero emissions. If 100% is truly controlled then emissions should be zero

Important Concepts (3)

- Report Process-level, not facility level
  - Ideally, emissions of all pollutants emitted from a process would be reported at the process-level using a descriptive SCC and well-defined unit
  - Your VOC HAPs should sum to LESS than (or equal to) your VOC
  - Your Particulate HAPs plus lead should sum LESS than (or equal to) your PM-10
- If you report any pollutants at the facility-level, emissions could cause potential double counting and other problems –
  - We saw this in some of the 2008 data - EPA data chosen ahead of SLT where found to be facility level

Submitting Your Point Inventory (Emissions)



7 Tables Required as highlighted "Staging Tables"

CERS and ExchangeHeader are the "Administrative" Tables and the others contain your data

<u>CERS</u>

- User identifier: **must be** registered EIS account ID (email) with CDX submittal privileges
- Program System Code: identifiers in your table
- Emissions Year: e.g., **2011**

<u>ExchangeHeader</u>

Your name, Org, Doc title, keywords, comments
DataFlowName: must be **EIS_v1_0**
Property-SubmissionType: must be either **QA** or **Production**
Property-DataCategory: must be **Point** if you are submitting your Point Inventory.

How to Populate the Tables for Your Point Inventory Submittal (1)

- Facility Site - Required
  - Facility Site Identifier and Facility Site Program System Code, **OR**
  - EIS Facility Site Identifier
  - State/County FIPS or Tribal Code
- Emissions Unit - Required
  - Facility Site Identifier and Facility Site Program System Code, **OR**
  - EIS Facility Site Identifier
  - State/County FIPS or Tribal Code
  - Unit Identifier and Unit Program System Code, **OR**
  - EIS Emissions Unit Identifier
- Emissions Process - Required
  - Facility Site Identifier and Facility Site Program System Code, **OR**
  - EIS Facility Site Identifier
  - State/County FIPS or Tribal Code
  - Unit Identifier and Unit Program System Code, **OR**
  - EIS Emissions Unit Identifier
  - Emissions Process Identifier and Process Program System Code, **OR**
  - EIS Emission Process Identifier

How to Populate the Tables for Your Point Inventory Submittal (2)

- Reporting Period – Required
  - Facility Site Identifier and Facility Site Program System Code, **OR**
  - EIS Facility Site Identifier
  - State/County FIPS or Tribal Code
  - Unit Identifier and Unit Program System Code, **OR**
  - EIS Emissions Unit Identifier
  - Emissions Process Identifier and Process Program System Code, **OR**
  - EIS Emission Process Identifier
  - **Reporting Period Type Code -- A for annual**
  - **Emissions Operating Type Code --- R for routine**
- Reporting Period – Optional
  - Start Date / End Date for episodic reporting only
  - Activity (e.g., throughput) fields– if you provide, must have these all 4 together (1) Calculation parameter value, (2) Calculation Material Code, (3)Calculation Parameter Type Code, (4) Calculation UOM
  - Optional Activity fields -- Data Year, Data Source
  - Reporting Period Comment

How to Populate the Tables for Your Point Inventory Submittal (3)

- Emissions – Required
  - Facility Site Identifier and Facility Site Program System Code, **OR**
  - EIS Facility Site Identifier
  - State/County FIPS or Tribal Code
  - Unit Identifier and Unit Program System Code, **OR**
  - EIS Emissions Unit Identifier
  - Emissions Process Identifier and Process Program System Code, **OR**
  - EIS Emission Process Identifier
  - Reporting Period Type Code
  - Emissions Operating Type Code
    - Each record must have at least one Reporting Code of “A” (annual) and one Emissions Operating Type Code of “R” (Routine)
  - **Pollutant Code**
  - **Total Emissions and UOM**
  - **Emission Calculation Method Code**
- Optional BUT DESIRED
  - Emission Factor, EF Numerator and Denominator, Factor Text
  - Emissions Comment

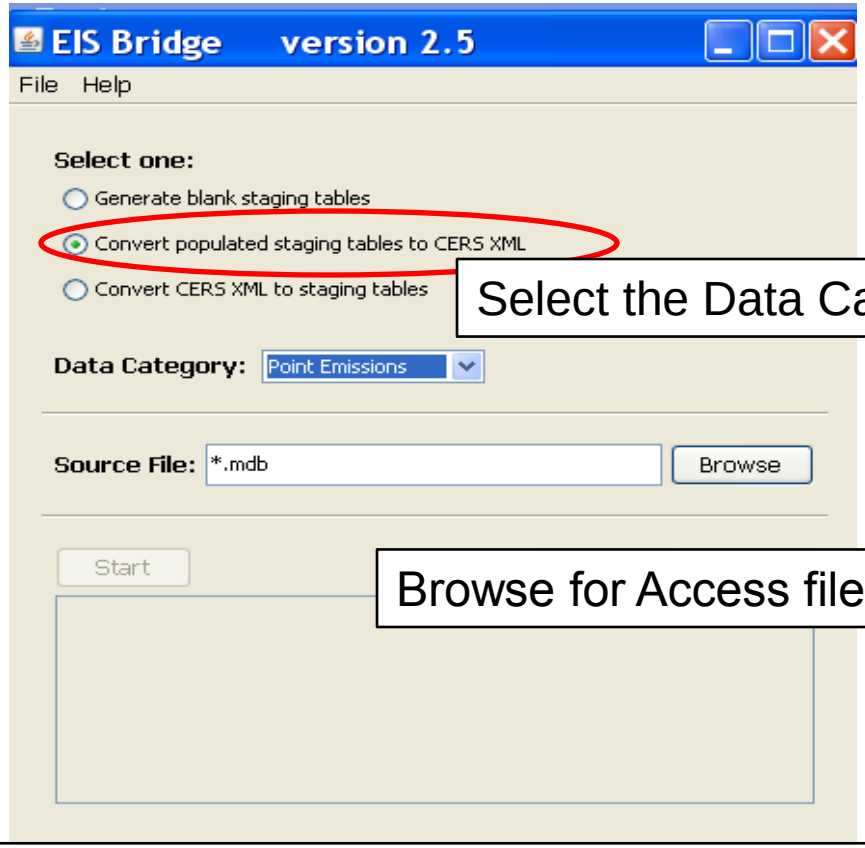
How to Populate the Tables for Your Point Inventory Submittal (4)

- Operating Details – Optional
  - Facility Site Identifier and Facility Site Program System Code, **OR**
  - EIS Facility Site Identifier
  - State/County FIPS or Tribal Code
  - Unit Identifier and Unit Program System Code, **OR**
  - EIS Emissions Unit Identifier
  - Emissions Process Identifier and Process Program System Code, **OR**
  - EIS Emission Process Identifier
  - Reporting Period Type Code
  - Emissions Operating Code
  - **Actual Hours Per Period, Average Days Per Week, Average Weeks Per Period**
  - **Seasonal Throughputs – Must equal 100**

How to Populate the Tables for Your Point Inventory Submittal (5)

- Supplemental Parameter – **Optional**
  - Facility Site Identifier and Facility Site Program System Code, **OR**
  - EIS Facility Site Identifier
  - State/County FIPS or Tribal Code
  - Unit Identifier and Unit Program System Code, **OR**
  - EIS Emissions Unit Identifier
  - Emissions Process Identifier and Process Program System Code, **OR**
  - EIS Emission Process Identifier
  - Reporting Period Type Code
  - Emissions Operating Code
  - **Supplemental Calculation Parameter Type**
    - **Heat Content, Percent Sulfur Content, or Percent Ash Content only**
  - **Supplemental Calculation Parameter Value**
  - **Supplemental Calculation Parameter Numerator and Denominator**
    - **Heat Content must be BTU or E6BTU**
  - **Supplemental Calculation Parameter Data year**
  - **Supplemental Calculation Parameter Data Source**
  - **Supplemental Calculation Parameter Comment**

Submission Process Using the Bridge Tool



Select the Data Category being converted.

Browse for Access file and select “Start”.

REMEMBER: The Bridge Tool works on Access 2003. If you file is saved as Access 2007 Or later, you will need to do a “save as” to Access 2003 prior to using the Bridge Tool.

Common Bridge Tool Errors

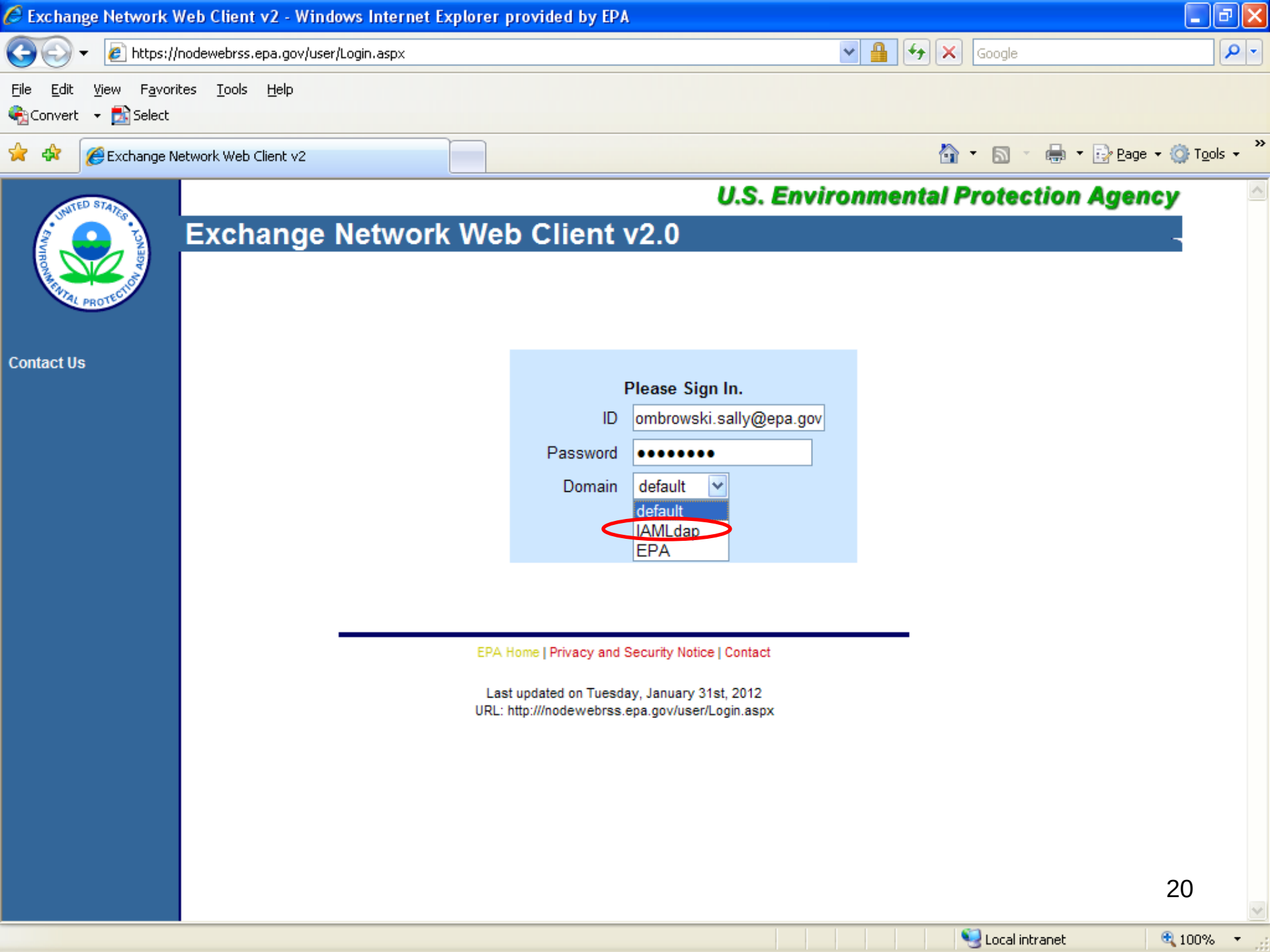
- XML validation failed due to the following: Invalid byte 1 of 1-byte UTF – 8 sequence.
  - This error is usually caused by a special character that may have been introduced if you used cut and paste.
- Solution: Open xml file in a web browser. The last line will show where the special character is located. This character may not be visible to the viewer. Delete the data and re-enter without using cut and paste.

Widows and Orphans

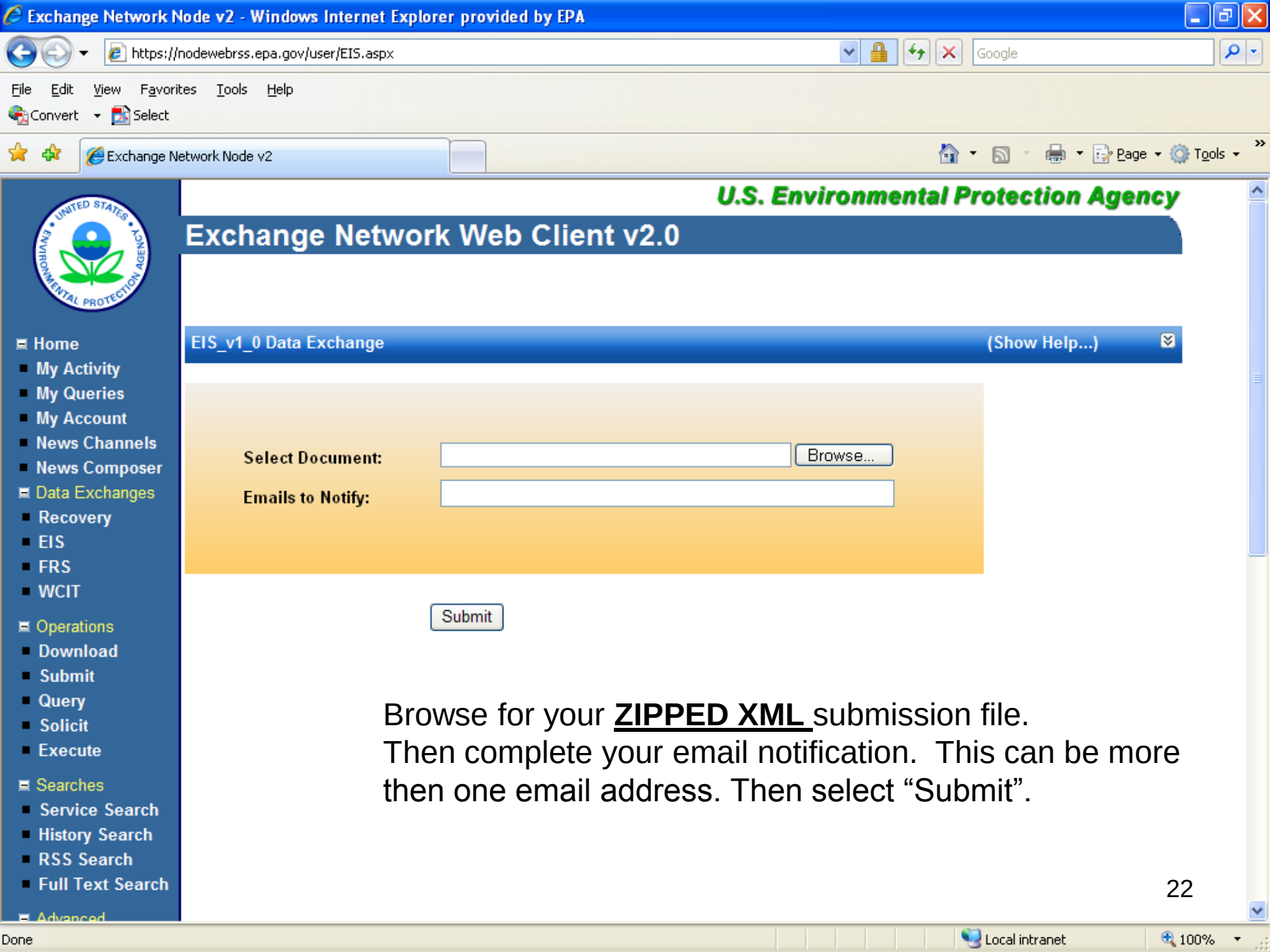
- Bridge Tool converted Point staging table but no emissions appear in the xml file, or you get a long error message about tables you may not have even submitted
  - If the submitter uses the EIS Identifiers in one table they must be used in all tables.
  - All tables must have the consistent data, e.g., records reported in your Reporting Period table that should be in the Emissions table

Submission Process

- Two methods
  - Node-to-node
  - CDX web client (most common method)
    - https://nodewebrss.epa.gov/user/Login.aspx
    - Use Gateway login and password
- QA and Production Environment
  - QA is always open to check your data. Does not change anything in the EIS
  - All critical errors should be addressed prior to your Production submission
  - Production submission is your official submission and will update the EIS
- Do not submit your POINT inventory directly after your facility inventory. If you have a problem in your facility inventory it will cause your POINT to fail as well.


Exchange Network Web Client v2 - Windows Internet Explorer provided by EPA
https://nodewebrss.epa.gov/user/Login.aspx
Google
File Edit View Favorites Tools Help
Convert Select
Exchange Network Web Client v2
Page Tools
U.S. Environmental Protection Agency
Exchange Network Web Client v2.0
Contact Us
Please Sign In.
ID ombrowski.sally@epa.gov
Password ••••••••
Domain default
default
IAMLdap
EPA
EPA Home | Privacy and Security Notice | Contact
Last updated on Tuesday, January 31st, 2012
URL: http:///nodewebrss.epa.gov/user/Login.aspx
Local intranet
100%

Exchange Network Node v2 - Windows Internet Explorer provided by EPA
https://nodewebrss.epa.gov/user/Login.aspx
File Edit View Favorites Tools Help
Convert Select
Exchange Network Node v2
Page Tools
U.S. Environmental Protection Agency
Exchange Network Web Client v2.0
Welcome to the Node 2.0 Web Interface
RSS/ATOM News Channel: RecoveryChannel
RSS ATOM
RSS Channel: Recovery
Published Date: Tue, 31 Jan 2012 08:17:30 -0500
Last Built Date: Tue, 31 Jan 2012 08:17:30 -0500
Description: Recovery Channel for interfacing to Recovery.gov
Language: en-us
Home
My Activity
My Queries
My Account
News Channels
News Composer
Data Exchanges
Recovery
EIS
FRS
WCIT
Operations
Download
Submit
Query
Solicit
Execute
Searches
Service Search
History Search
RSS Search
Full Text Search
Advanced
Select EIS from the left-hand side bar
ecovery.gov submitted on January 30, 2012
Tue, 24 Jan 2012 13:12:16 -0500
EPA Weekly Financial and Activity Report for January 24, 2012
This is the EPA Weekly Financial and Activity Report for Recovery.gov submitted on January 24, 2012
Tue, 17 Jan 2012 13:47:35 -0500
EPA Weekly Financial and Activity Report for January 17, 2012
This is the EPA Weekly Financial and Activity Report for Recovery.gov submitted on January 17, 2012
Tue, 10 Jan 2012 10:18:21 -0500
EPA Weekly Financial and Activity Report for January 10, 2012
This is the EPA Weekly Financial and Activity Report for Recovery.gov submitted on January 10, 2012
Tue, 03 Jan 2012 12:43:13 -0500
EPA Weekly Financial and Activity Report for January 03, 2012
This is the EPA Weekly Financial and Activity Report for Recovery.gov submitted on January 03, 2012
Tue, 27 Dec 2011 13:40:18 -0500
EPA Weekly Financial and Activity Report for December 27, 2011
This is the EPA Weekly Financial and Activity Report for Recovery.gov submitted on December 27, 2011
Tue, 20 Dec 2011 11:34:57 -0500
Done
Local intranet
100%

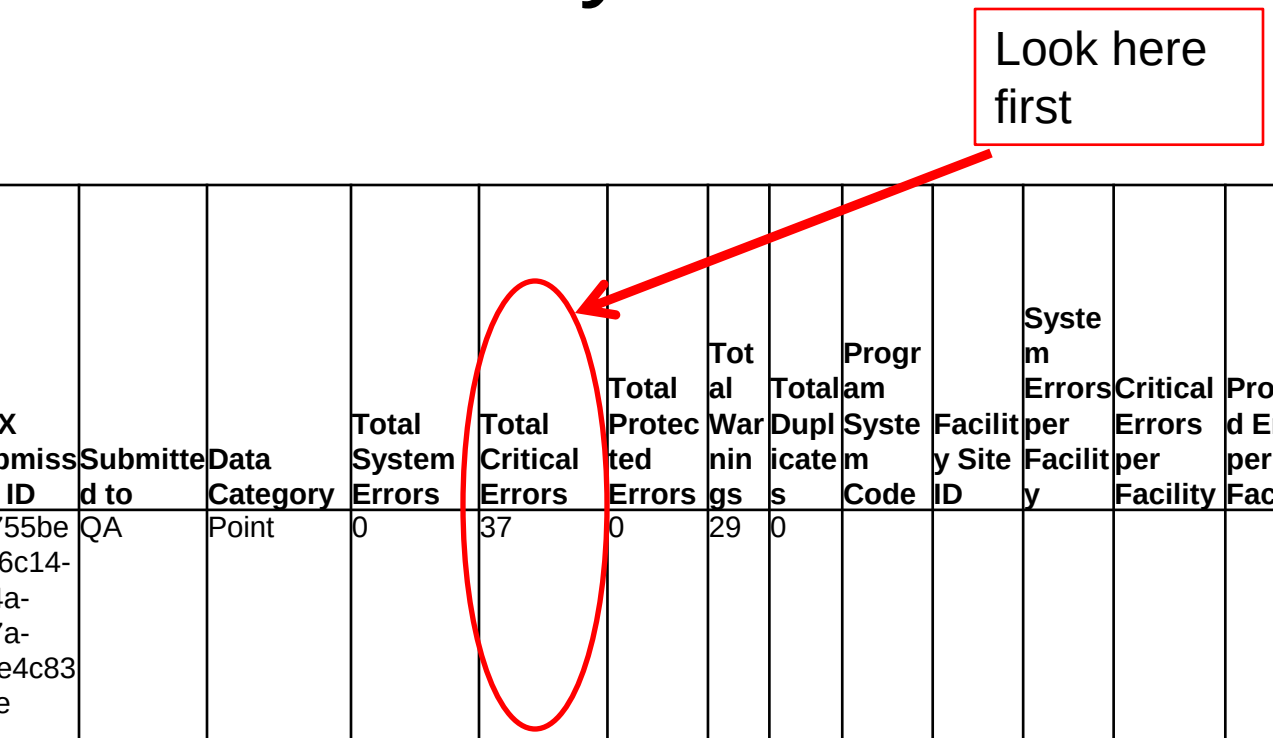


Browse for your **ZIPPED XML** submission file. Then complete your email notification. This can be more then one email address. Then select “Submit”.

Email Notifications

- First email, from “CDX Notification”, immediate
  - Transaction Status: **Pending**
- Second email – also from “CDX Notification”, when EIS completes processing
  - Transaction Status: **Completed.** Feedback report is available at EIS Gateway
- Third email – from “noreply” (EIS Gateway), on quarter hours
  - Status: Completed or Failed
    - Wrong file submission error – Usually a zipped Access file is submitted instead of the xml file
    - Window closed error – “User, agency, submission year not authorized”
    - Completed might be for an XML file containing no data
  - Go to EIS Gateway and read the Feedback Report and resolve any critical errors

The Feedback Report Summary Tab



Submitter ID	Submission Date	Submission Status	CDX Submission ID	Submitted to	Data Category	Total System Errors	Total Critical Errors	Total Protected Errors	Total Warnings	Total Duplicates	Program System Code	Facility Site ID	System Errors per Facility	Critical Errors per Facility	Protected Errors per Facility	Warnings per Facility
brandon.porter@dep.state.fl.us	2012-01-31 01:14 PM	COMPLETED	_4755be18-6c14-454a-b37a-f29e4c834fce	QA	Point	0	37	0	29	0						
											FLDEP	0010129	0	2	0	0
											FLDEP	1050422	0	0	0	1

Feedback Report Statistics Tab

Nothing was really added for a QA submittal, but it is for a Production submittal

Component	Added	Updated
ReportingPeriod	1157	0
OperatingDetails	1157	0
SupplementalCalculationParameter	437	0
Emissions	4077	0
Total	**6828**	**0**

If all went well, this should match the number of records in your emissions table. If it is less, then you had critical errors. Don't correct just those errors and resubmit because whenever you submit emissions for a process, if you don't submit all pollutants they will get wiped out.

Feedback Report
System Errors

- System errors will generally always take care of themselves when all critical errors have been addressed.

Feedback Report-Critical Errors

FIPS/Tribal Code	Facility Site ID	Emissions Unit ID	Release Point ID	Process ID	process id	Reporting Period Type	Pollutant Code	Critical Error	Critical Error Type	Critical Error Message	Resolution Message	Associated Data Component	Associated Data Component ID	Associated Data Element
06011	EIS-76611	EIS-51948213		EIS-59563014	59563014	A		1930	Cardinality	When reporting emissions, a pollutant may not reported multiple times under a single reporting period.		Reporting Period		
06011	EIS-76611	EIS-51948313		EIS-59562914	59562914	A		1930	Cardinality	When reporting emissions, a pollutant may not reported multiple times under a single reporting period.		Reporting Period		
06011	EIS-76611	EIS-51948613		EIS-59562614	59562614	A		1930	Cardinality	When reporting emissions, a pollutant may not reported multiple times under a single reporting period.		Reporting Period		

Common Errors

- -error 1770 - Process ID does not exist.
  - Might be occurring if you submit your Point right after your facility inventory and you did not resolve critical errors or the Potential Duplicate Facilities error
- Emission calculation method code is required

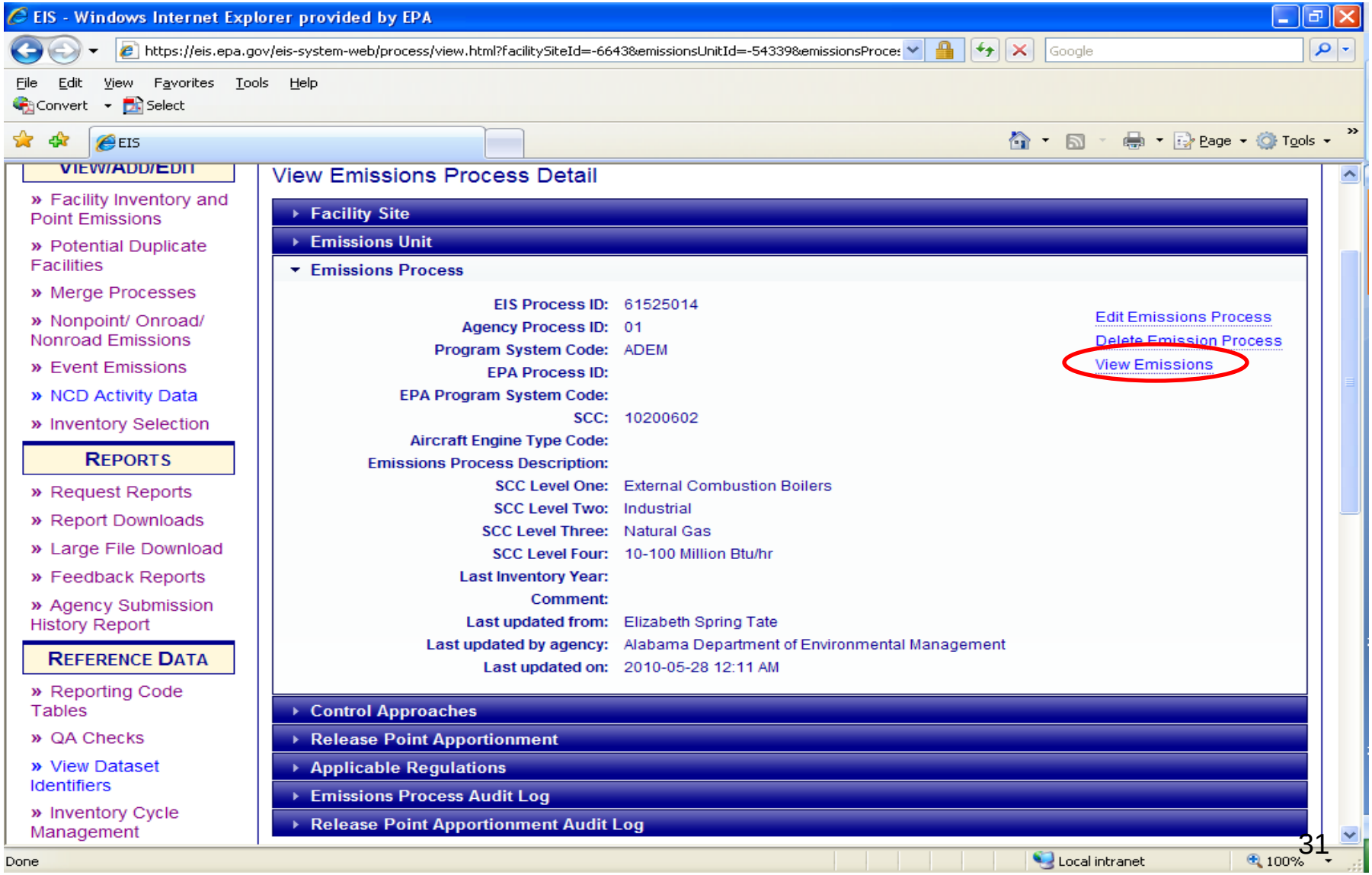
Important Changes To QA checks on Emissions

- We are replacing the warning check on emissions values to CRITICAL
  - We are in the process of deriving new limits that will keep out true outliers
  - System will allow us to change limits if we need to
  - send a Support Request if you get a critical error that you think is not a true outlier
- Several pollutant specific new critical error checks to be covered ahead

How do I edit an emissions value?

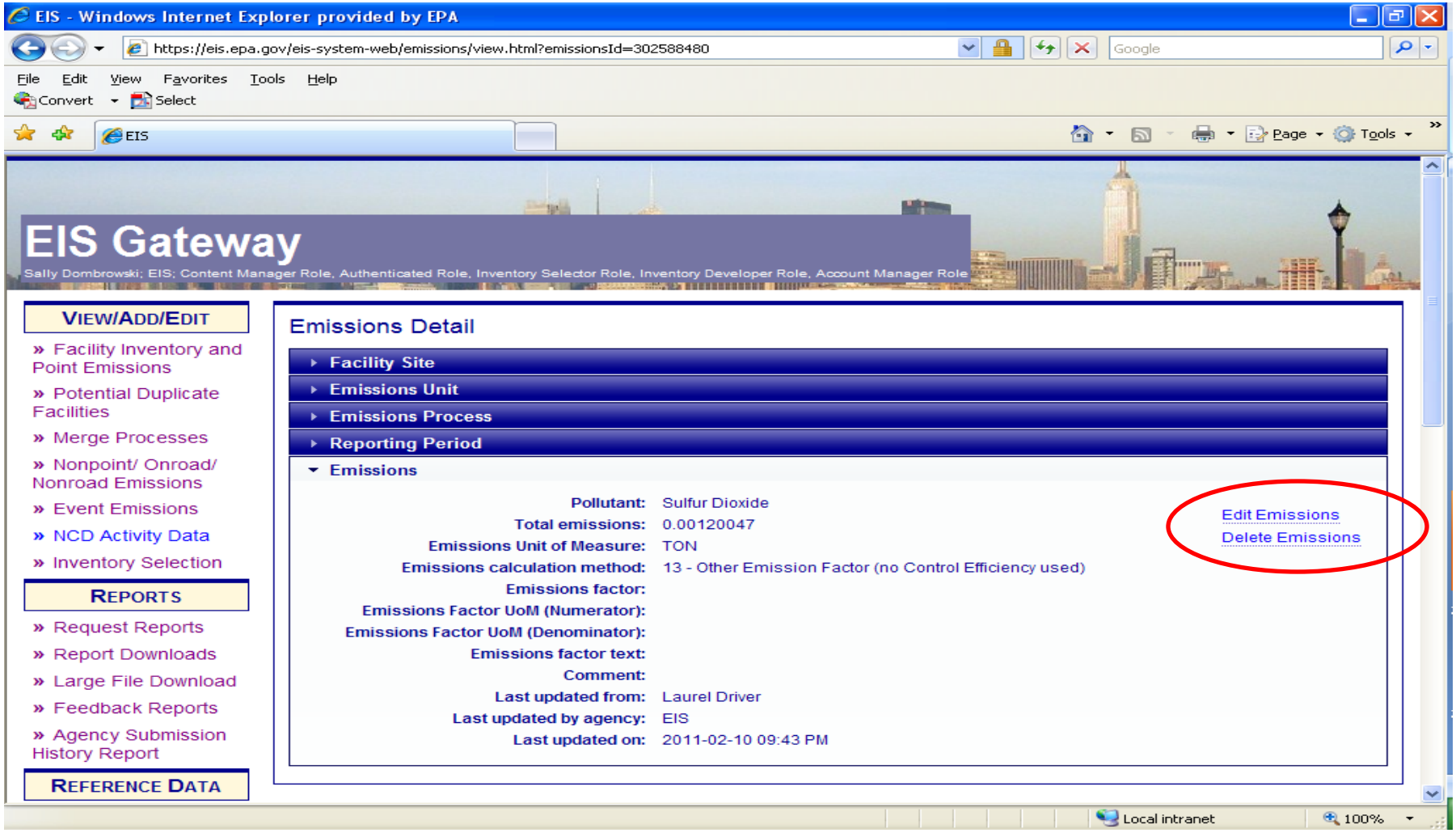
- Edit emissions values by
  - Batch upload (Staging Tables)
    - Remember to include all pollutants previously reported, including the emission to be changed.
  - Gateway
    - Easiest and safest if you only have a few changes.

Editing Emissions on the Gateway (1)

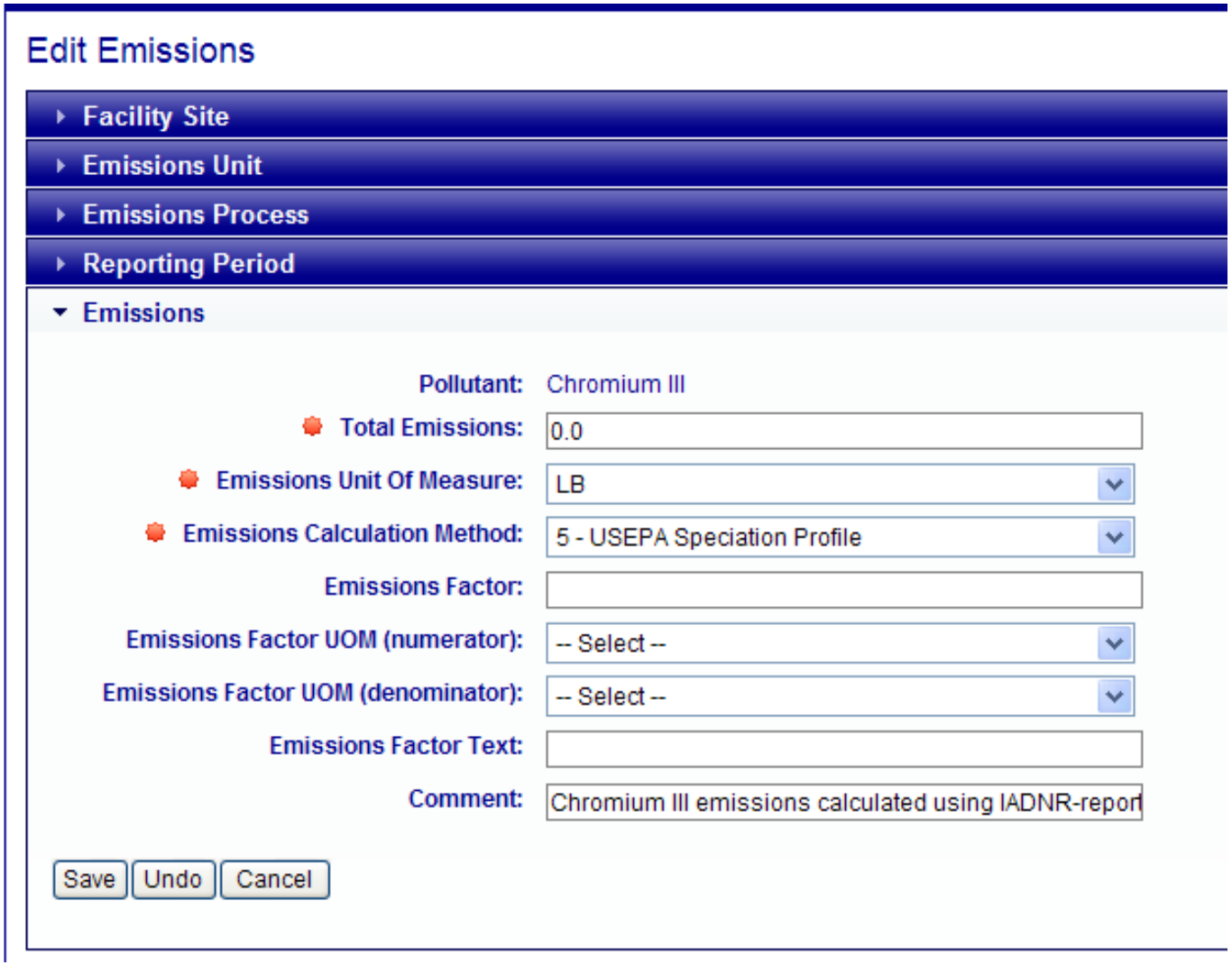


Editing Emissions on the Gateway (2)

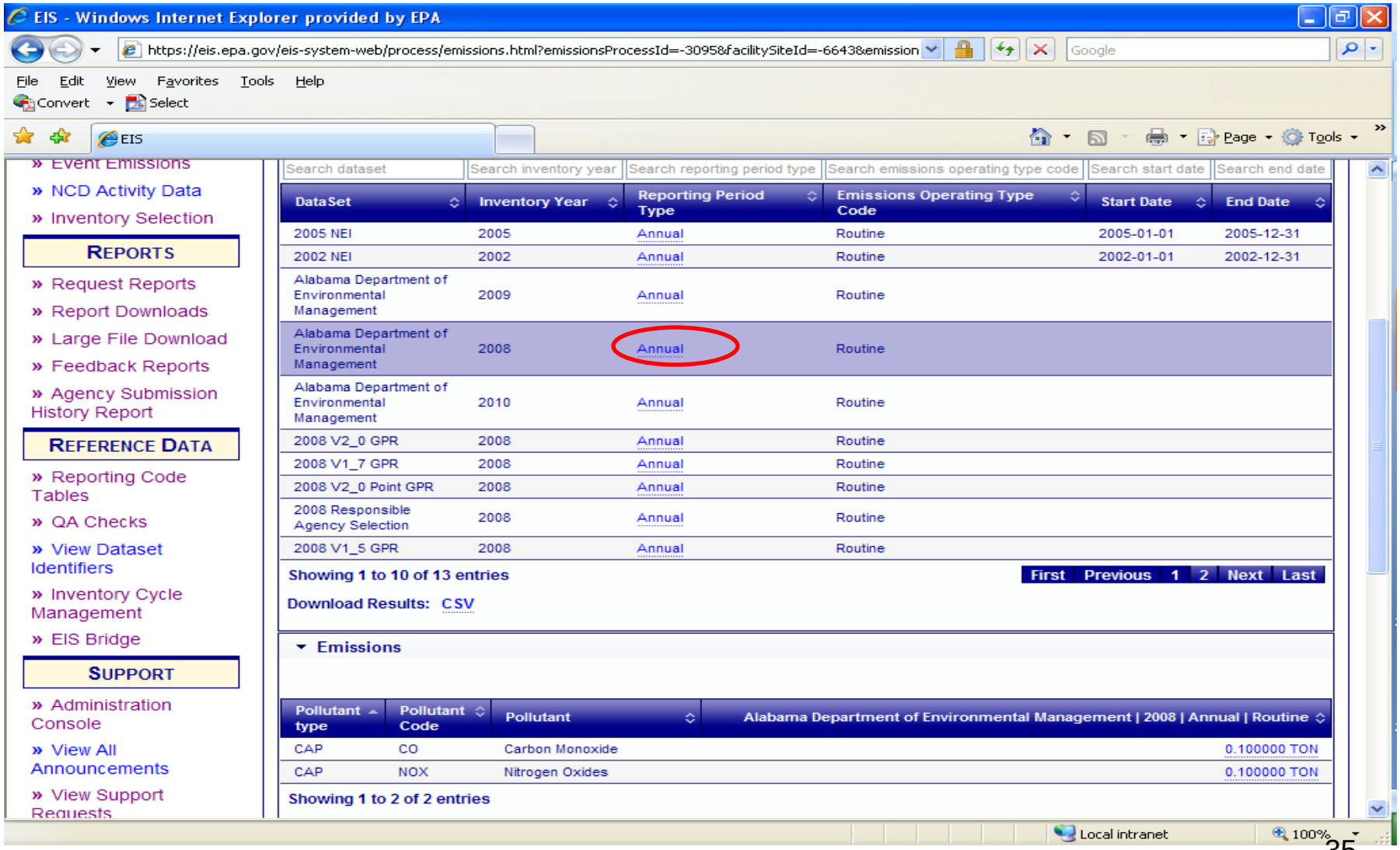
Editing Emissions on the Gateway(3)



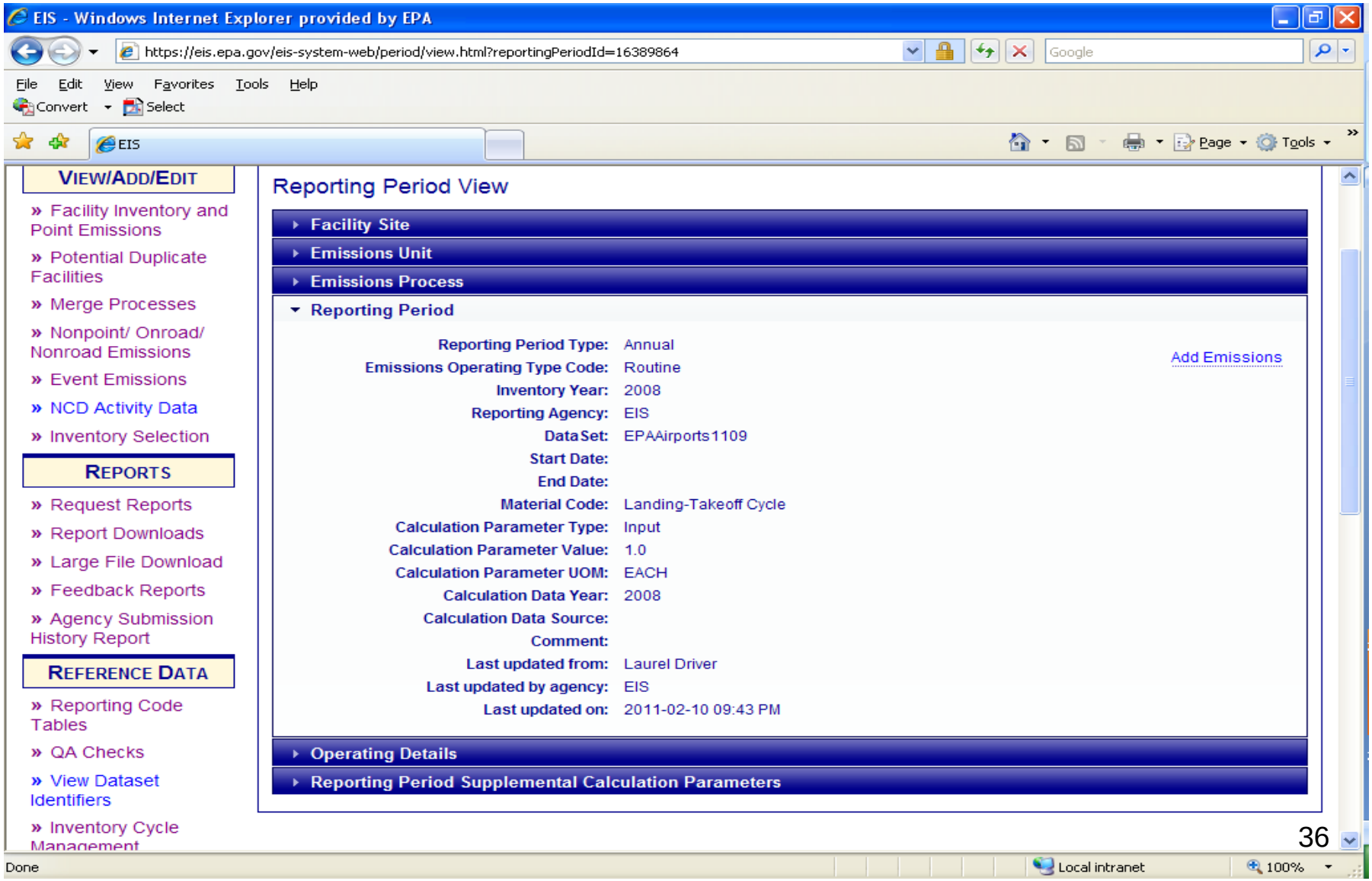
Editing Emissions on the Gateway (4)



Adding a pollutant via the Gateway (1)



Adding a pollutant via the Gateway (2)



Airports are Point Sources

- Includes aircraft engines exhaust, auxiliary power units and ground support equipment (GSE). Excludes aviation gas distribution (nonpoint)
- Although NONROAD model calculates GSE, those SCCs must be reported at the airport, and are not allowed in a nonroad submittal

- Aircraft exhaust units are aircraft types by SCC (military, commercial, general aviation, etc). Processes are aircraft make and engine type, indicated by aircraftenginetype code --→now a required field
- Submitters should not create new units and processes without first confirming you have SCC and aircraft-engine combinations that are not represented at the existing EIS airport. EIS will not accept new submittals that duplicate units or processes. -→ New Critical QA CHECK
- If funding becomes available, EPA may collect LTO data outside the EIS process.

Rail Yards

- EPA has developed facilities for 750 large yards. Nonpoint yard emissions are also allowed, but submitters should first look for facility yards to avoid double counting, before reporting as nonpoint.
- All yards are not yet in EIS, thus additional facilities are desired.
- Rails lines are reported in nonpoint

EGUs

- SLT responsible for reporting emissions
- Updated emission factors (including unit specific test-based factors) for selected pollutants were developed during the MATS rule for units expected to be affected by the rule (>25 MW , coal, oil)
- Updated PM unit-specific test-based emission factors also available
- Can get these from the rule website
  - http://www.epa.gov/ttn/atw/utility/utilitypg.html
- We will be posting these on http://www.epa.gov/ttn/chief/eiinformation.html

Electric Arc Furnaces

- Updated Hg emission factors available for some facilities from recent testing associated with rule development
- Were emailed in Feb to Agencies that have facilities with EAFs

Other Source Categories

- Check with your Agency's source testers for available test data/site specific estimates that can be used
- We will also see what additional test data exists for other rules and provide it on our website
- We will also post the Nat gas combustion PM Efs that we've previously posted -- ftp://ftp.epa.gov/EmisInventory/2002finalnei/documentation/point/augmentation_point/ratios_to_adjust_pmvalues_in_nei_for_naturalgas_combustion082005.xls and ftp://ftp.epa.gov/EmisInventory/2002finalnei/documentation/point/pm_adjustment_2002_nei.pdf

Please populate the Emissions Calculation Method code as accurately as possible and provide the optional Emission Factor information (value, numerator, denominator) for us to better evaluate the information.

Priority Facility/Pollutant list

- We are working on a list of priority facility-pollutant combinations we will focus on for data completeness and, where possible EPA gap filling may be needed
- Similar to “high risk” review we did in 2008 in that it targets a limited number of facilities (but you’ll have more time to review)

Pollutant Code Changes for the 2011 Reporting Cycle

Will be implemented this Spring and will be ready for the June 1, 2012 window opening

- Retirements
  - 141/142 (BSO, MCSO)
  - Dioxin/furan groups using obsolete TEQ schemes: 600,626,627
- Change from Retired to Active
  - 284 EOM
  - 140 Coke Oven Emissions
- Totally New Active
  - 628 Dioxins/Furans as 2,3,7,8-TCDD TEQs - WHO2005

Flavors of PM

- Filterable: PM10-FIL; PM25-FIL
- Condensable: PM-CON
- Primary: PM10-PRI; PM25-PRI

Please report FIL species and PM-CON. Report Primary species if you don't have anything else.

Most important thing is to use the codes correctly and not to report any other types of PM that are not one of the 5

No "TSP" no "PM"

If you don't report all 5 flavors, EPA will gap fill based on the values of the PM species you do report

This is called "PM Augmentation" and is documented in the 2008 NEI v2 documentation

NEW CRITICAL QA Checks for PM

- IF PM25-FIL>PM10-FIL, all pollutants from this process will be rejected
- IF PM25-PRI>PM10-PRI, all pollutants from this process will be rejected

- IF you report PM25-FIL, you MUST also report PM10-FIL, otherwise all pollutants from this process will be rejected
- IF you report PM25-PRI, you MUST also report PM10-PRI, otherwise all pollutants from this process will be rejected

The Types of HAPs

- Listed HAPs reported as individual pollutants
- Metals reported as a single pollutant code
- Listed HAPs that can be reported as either individual pollutants or as a single aggregate pollutant
- Special Cases

HAPs Reported as Individual Pollutants

- Easiest HAPs to report
- One pollutant code per HAP: E.G.; benzene, 1,3 butadiene, hydrochloric acid, and about 160 others
- Pollutant code is chemical abstract system # (no dashes)
- Still need to be aware of synonyms
  - Perchloroethylene = tetrachlorethylene
  - Methylene chloride = dichloromethane
  - 1,2 –dibromoethane = ethylene dibromide
  - 1,2-dichloroethane = ethylene dichloride
- Good idea to check by using CAS #

Metal and compound HAPs reported as a single aggregate

- Includes:
  - Antimony
  - Arsenic
  - Beryllium
  - Cadmium
  - Cobalt
  - Lead
  - Manganese
  - Selenium
  - Mercury

Changed in 2008 – used to have multiple pollutant codes but now only 1 code will be accepted.

- Can only use one code (CAS # of the metal)

- Spreadsheet tool provides instructions for converting compounds into single aggregate pollutant: http://www.epa.gov/ttn/chief/eidocs/pollutant_code_conversion_spreadsheet.xls (modified June 2011)

HAPs that can be Reported as a Single compound or aggregate group

- **Cresols**: p-cresol, m-cresol, o-cresol and cresols (Includes o,m &p)
- **Fine Mineral Fibers**: "Fine Mineral Fibers" and the following 4 specific ones: Ceramic Fibers (Man-Made Fibers), Glasswool (Man-Made Fibers), Slagwool (Man-Made Fibers), Rockwool (Man-Made Fibers)
- **Glycol Ethers**: Glycol Ethers and 52 specific glycol ether compounds
- **PCBs**: Polychlorinated Biphenyls and 10 specific PCBs
- **POM/PAHs**: "PAH, total", "PAH/POM – Unspecified", "coal tar" , EOM and 50 specific PAHs. (note that 7-PAH is retired)
- **Xylenes**: "Xylenes (Mixed Isomers)" and the 3 xylene isomers: o-xylene, m-xylene and p-xylene
- **Radionuclides**: "Radionuclides (Including Radon)" and 10 specific ones
- **Dioxins/Furans:** three aggregate pollutants (e.g. "dioxins/furans as 2,3,7,8-TCDD TEQs-I/98") and 17 specific ones

DO NOT REPORT the grouped pollutant and any of the specific members of the group at the same process; e.g.,

DO NOT REPORT "cresols" and m-cresol (or o- or p- at the same process

We will have a NEW QA check that will not accept data under these situations: all pollutants from the process will be rejected if this check fails

Special Cases

- **Chromium**
- **Nickel**
- **Coke Oven Emissions**
- **Cyanide**

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Chromium

- **Allowable Pollutant Codes**

Pollutant Code	Description
1333820	Chromium Trioxide
16065831	Chromium III
18540299	Chromium (VI)
7440473	Chromium
7738945	Chromic Acid (VI)

- Chromium VI (and chromium trioxide and chromic acid) are high risk HAPs.
- Chromium (7440473) is not speciated, and could be a mix of chromium VI and non-high risk forms of chromium

- If you have a chromium compound other than the ones listed, use the spreadsheet tool to convert to Chromium III or Chromium VI.

- DO NOT REPORT CHROMIUM and hex or tri at the same process

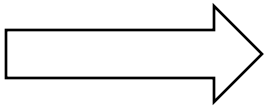
New QA check will reject all emissions for that process

In the 2008 NEI, EPA developed a speciated chromium dataset that contained hex and tri based on speciated SLT chromium. Documentation is on chief. Plan on using same approach for 2011

Coke Oven Emissions

- **Allowable Pollutant Codes 2008 - 2010**

Pollutant Code	Description
141	Benzene Soluble Organics (BSO)
142	Methylene Chloride Soluble Organics (MCSO)



- Allowable Pollutant Codes 2011 and later

Pollutant Code	Description
140	Coke Oven Emissions

Nickel

- **Allowable Pollutant Codes**

Pollutant Code	Description
12035722	Nickel Subsulfide
1313991	Nickel Oxide
604	Nickel Refinery Dust
7440020	Nickel

- If you have a nickel compound other than the ones listed, use the spreadsheet tool to convert to nickel.

- Ok to report nickel with any of the other flavors. Just know that any risk will be additive

Cyanide

- **Allowable Pollutant Codes**

Pollutant Code	Description
57125	Cyanide
74908	Hydrogen Cyanide

- Can report cyanide or hydrogen cyanide
- Spreadsheet tool provides instructions/data for converting other cyanide compounds (such as Potassium cyanide) to a valid pollutant.

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Recap what's new

- Pollutant code changes
- QA checks
- EGUs and EAFs updated EFs

BREAK

10 minutes

When will my data show up in EIS?

- Emissions data will show in the Gateway at the **process level** immediately
- Emissions data will not will not show up at the facility/unit level or in reports until the system has done an overnight refresh.
- XML Snapshot – refreshes are done in batch overnight, but only if you request it (via Report Request)

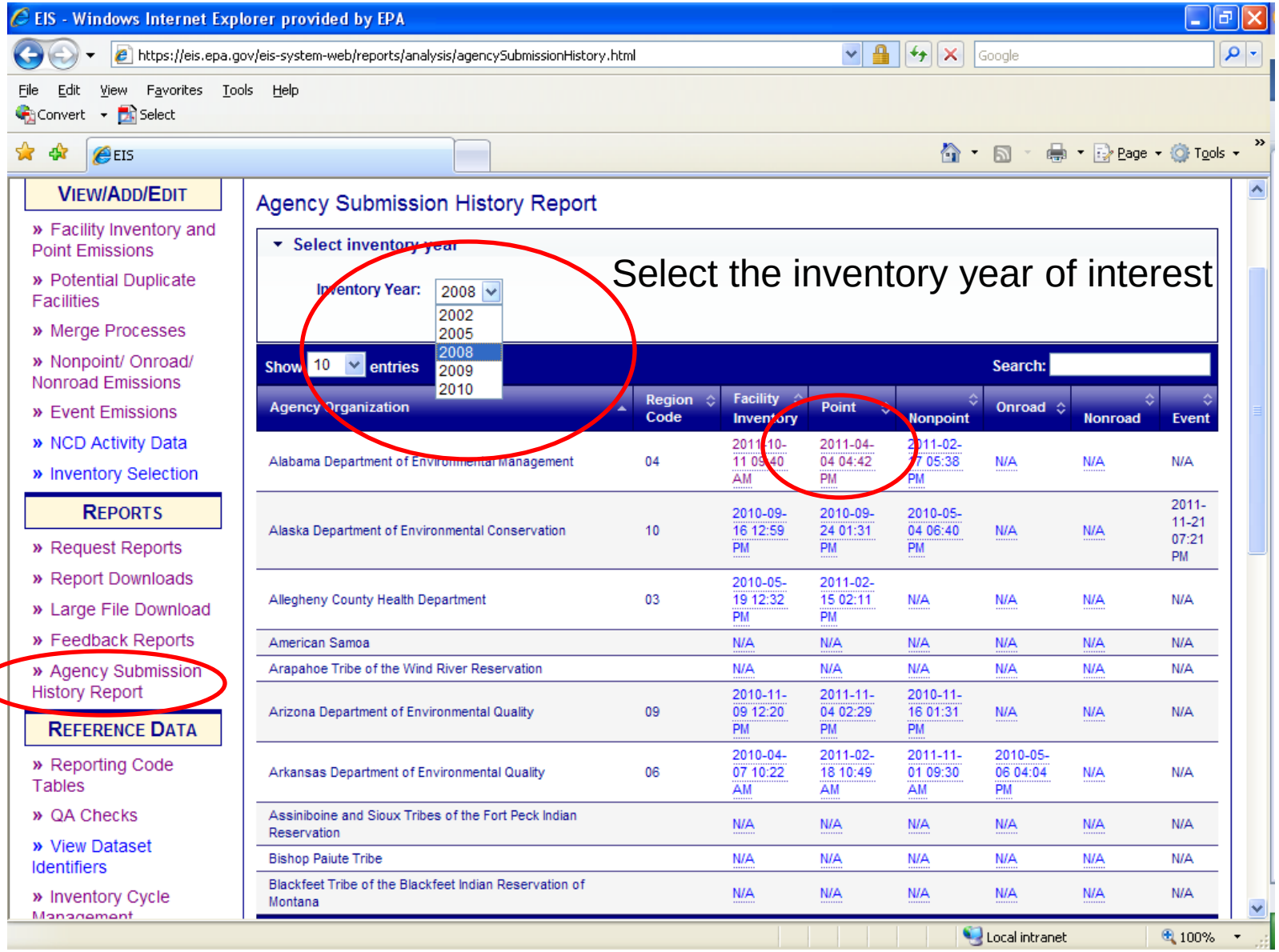
Checking Your Data

- Completeness: Are there facilities that are operating but do not have emissions?

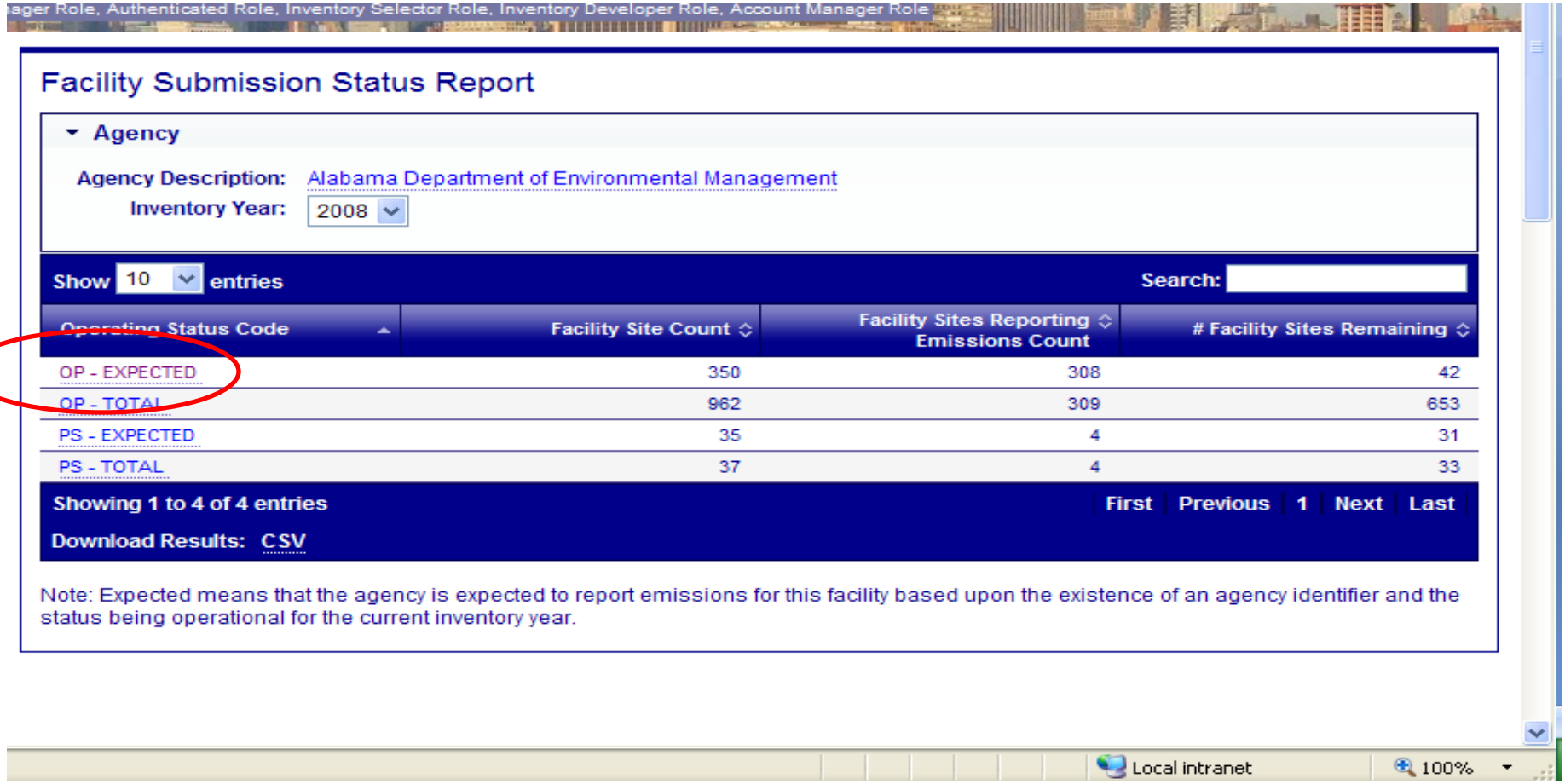
- Emissions Values: Run an emissions summary report to compare what is in the system with your data

Wait until the overnight refresh before you do this

Agency Submission History Report



Agency Submission History Report



List of facilities for which emissions were expected but no emissions reported

Agency/Operating Status

Agency Description: Alabama Department of Environmental Management
Operating Status: OP - EXPECTED
Inventory Year: 2008

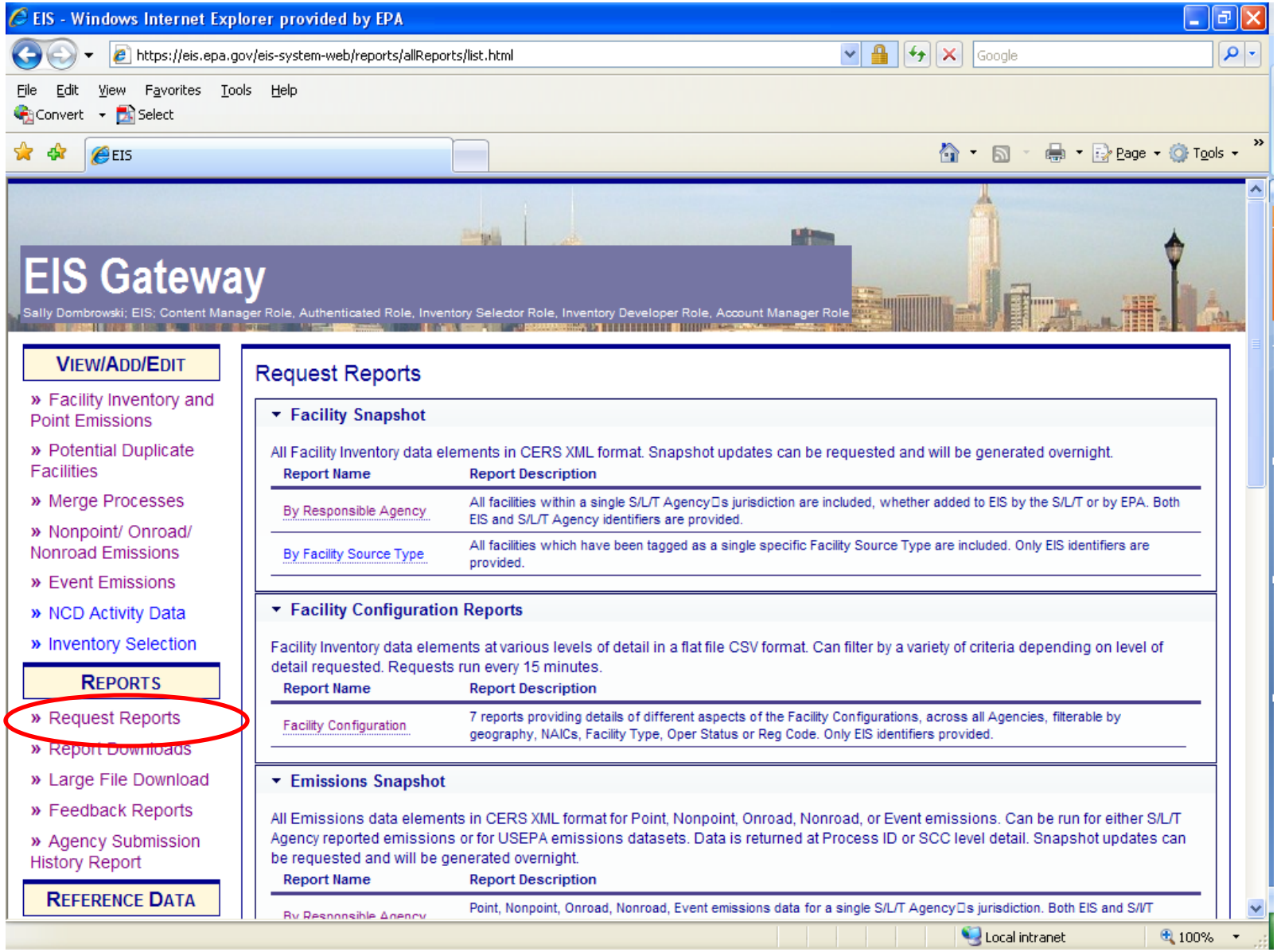
Report

Sort by Pollutant count

350 items found, displaying 1 to 25.[First/Prev] 1, 2, 3, 4, 5, 6, 7, 8 [Next/Last]

EIS Facility ID	State and County Code	Tribal Code	Agency System Code	Agency ID	Facility Name	Operating Status	Operating Status Year	Expected?	NAICS Code	Facility Type	Process Count	Pollutant Count
12787711	01125		ADEM	0005	Warrior Asphalt Refining Co Inc	OP		yes	324122			
7212411	01001		ADEM	0005	Haldex Friction Products	OP	2008	yes	336399			
7949611	01075		ADEM	0008	Marathon Equipment Co	OP	2008	yes	333319			
966411	01033		ADEM	0009	Wise Alloys L L C	OP	2008	yes	331314			
953911	01083		ADEM	0011	Steelcase Inc	OP	2008	yes	337214			
561611	01005		ADEM	0013	Mineral Manufacturing Corporation	OP	2008	yes	327999			
7919611	01031		ADEM	0014	Dorsey Trailer Inc	OP	2008	yes	336212			
1042311	01093		ADEM	0015	Speedrack	OP	2008	yes	332510			
886111	01111		ADEM	0016	Meadowcraft Casual Furniture Inc	OP	2008	yes	337124			
1021911	01057		ADEM	0017	Oxbodies Inc	OP	2008	yes	336211			
					Midroc Operating							

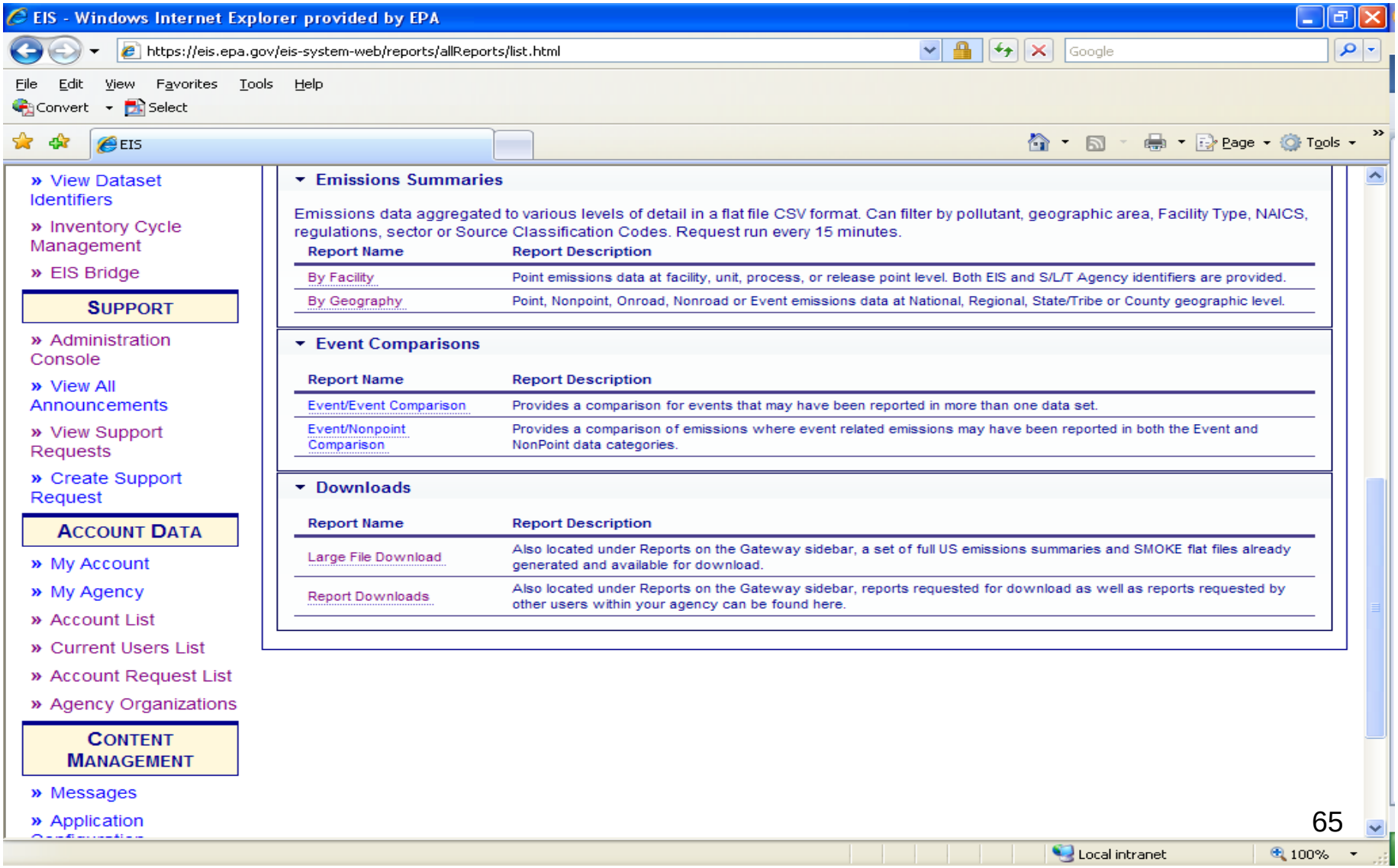
Request reports to get data out of EIS



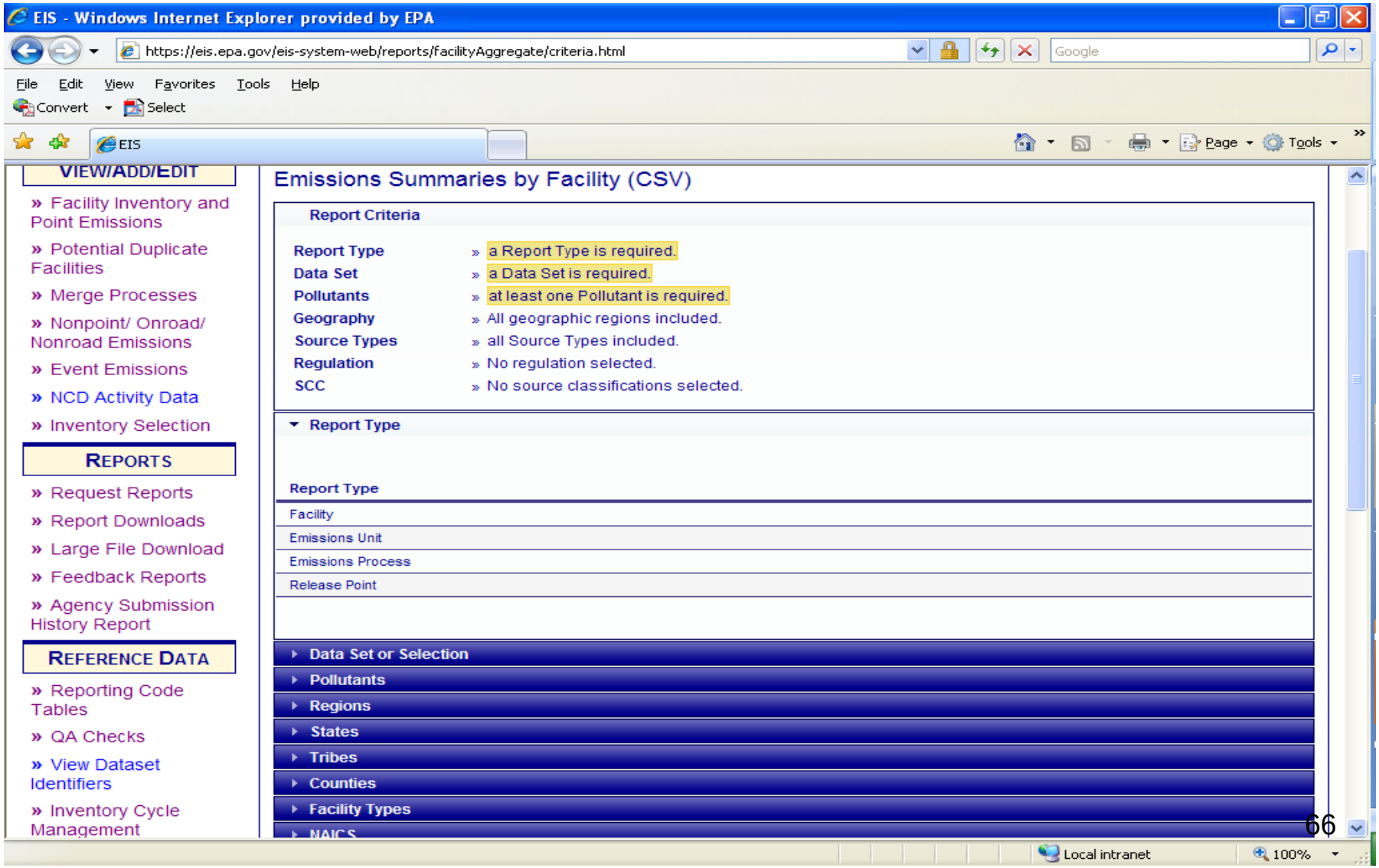
Reports - Snapshots

Reports - Snapshots

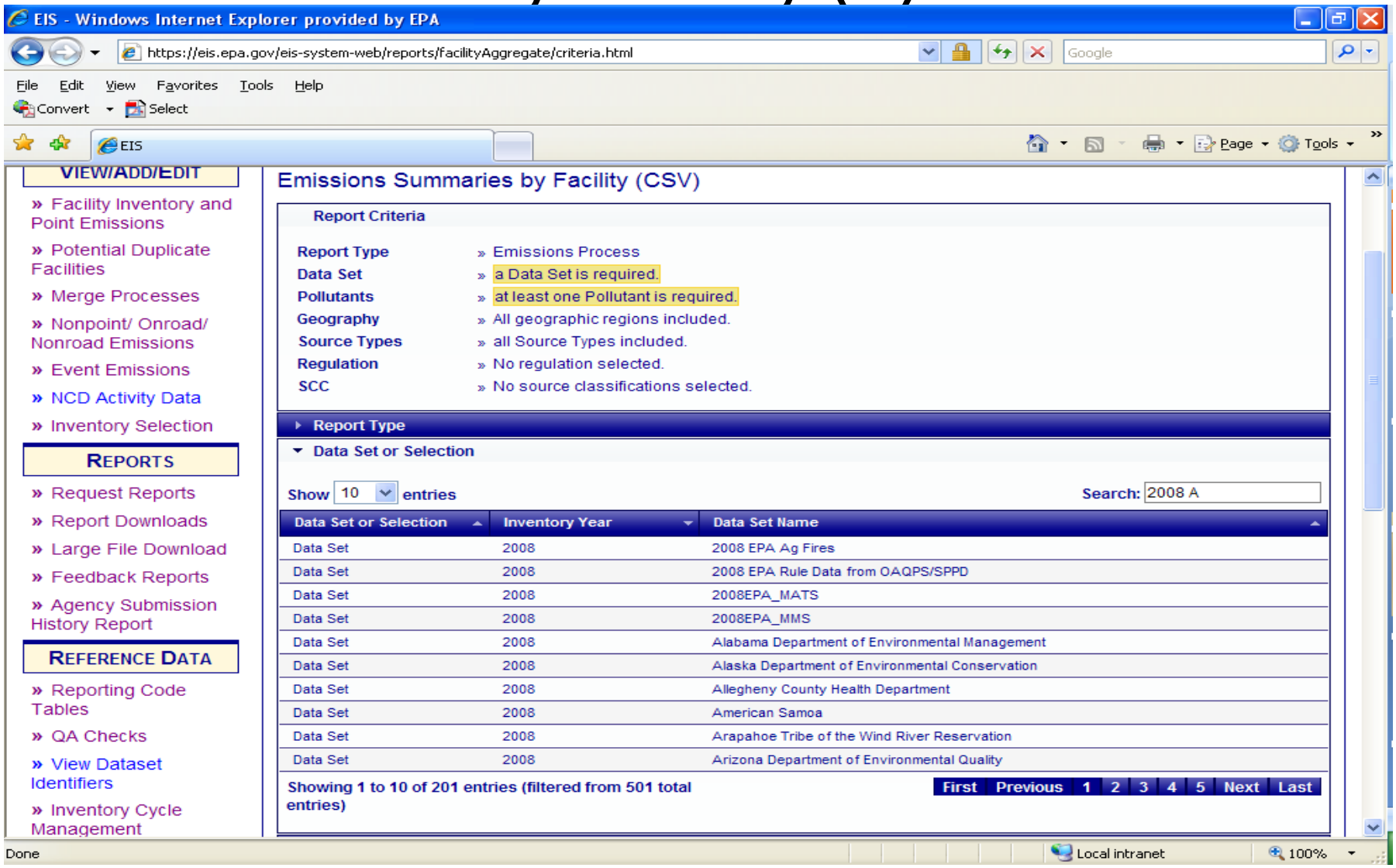
Reports
Emissions Summaries



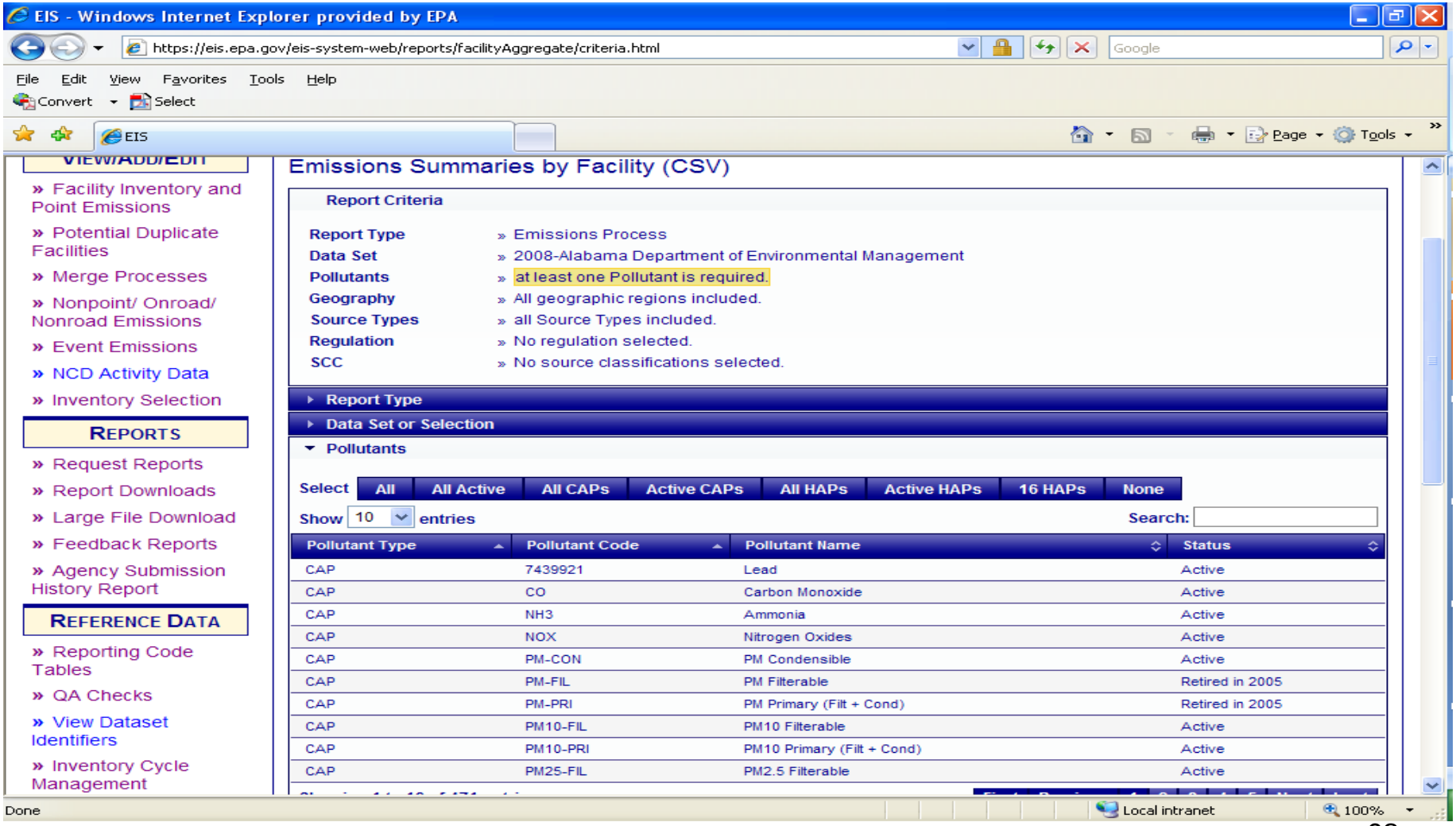
Reports – Emissions Summary by Facility (1)



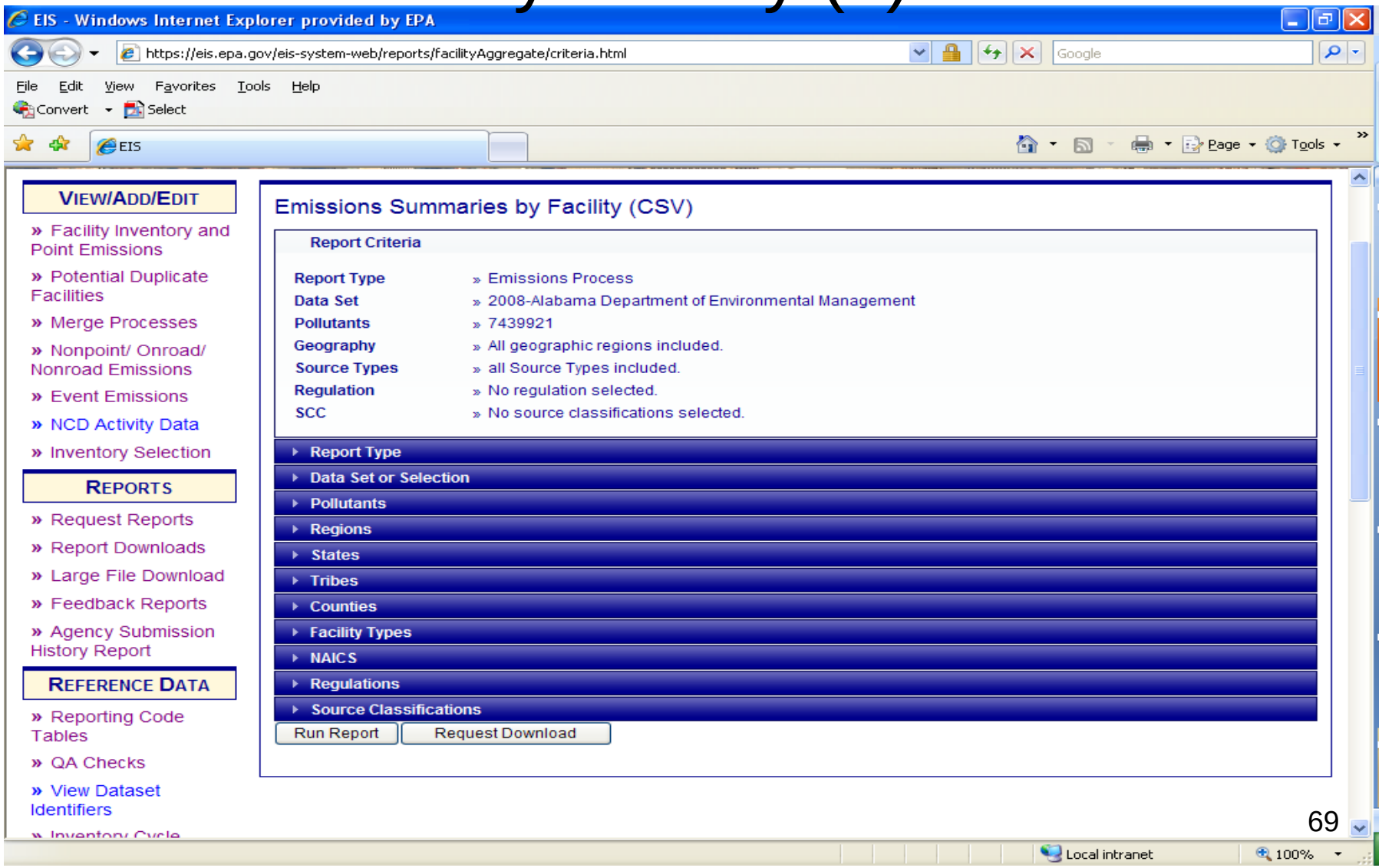
Reports – Emissions Summary by Facility (2)



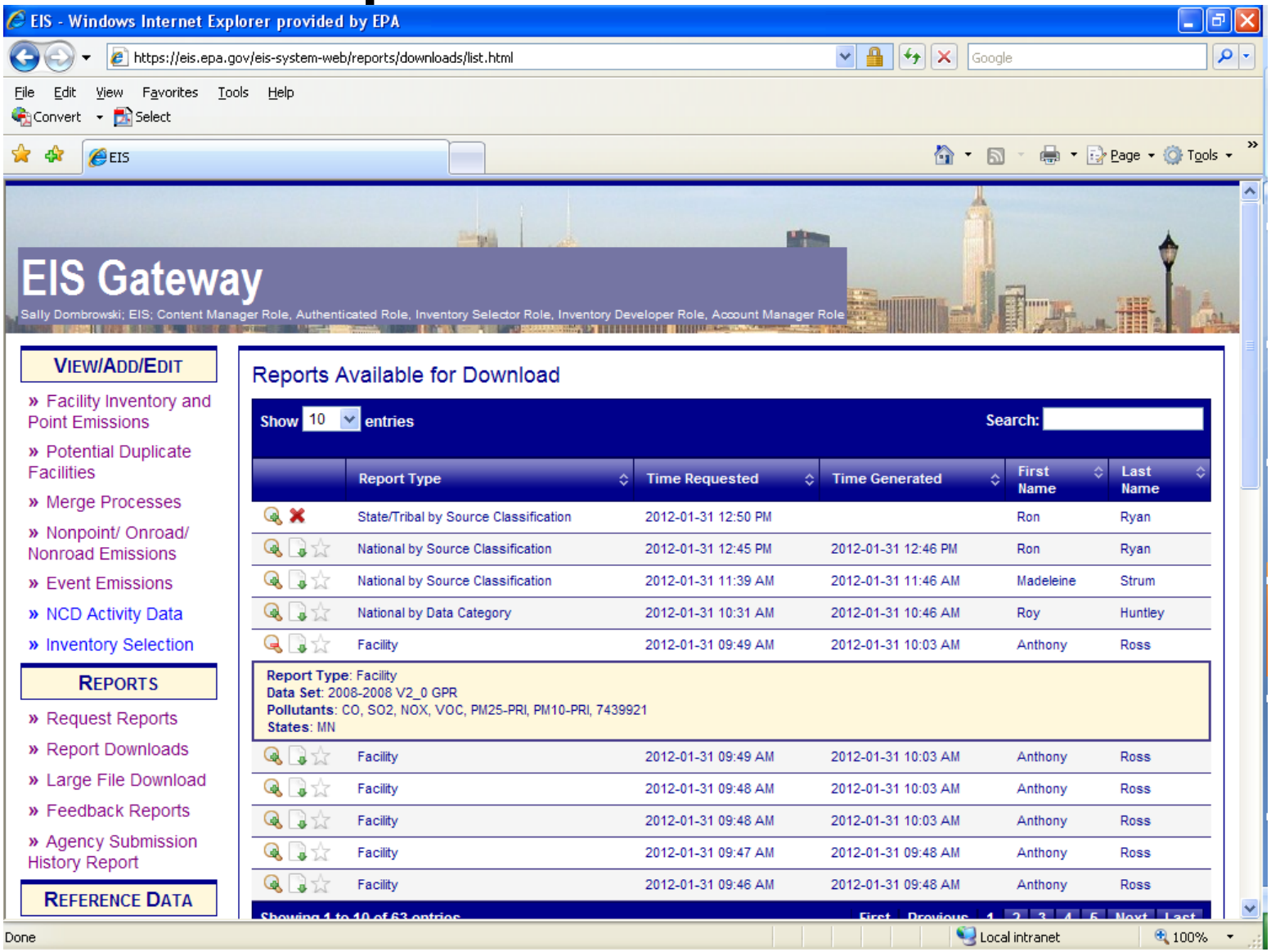
Reports – Emissions Summary by Facility (3)



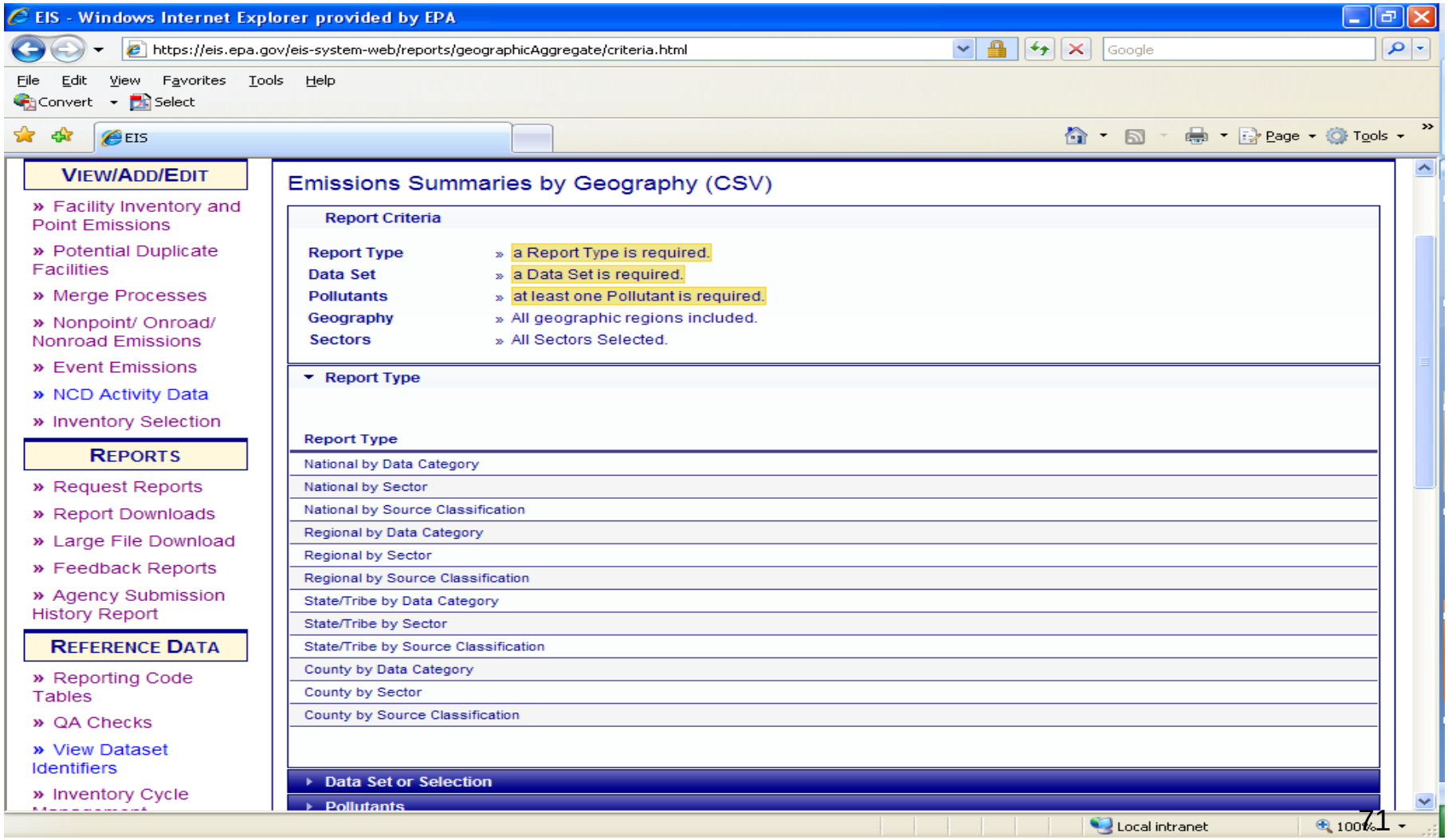
Reports – Emissions Summary by Facility (4)



Report Downloads

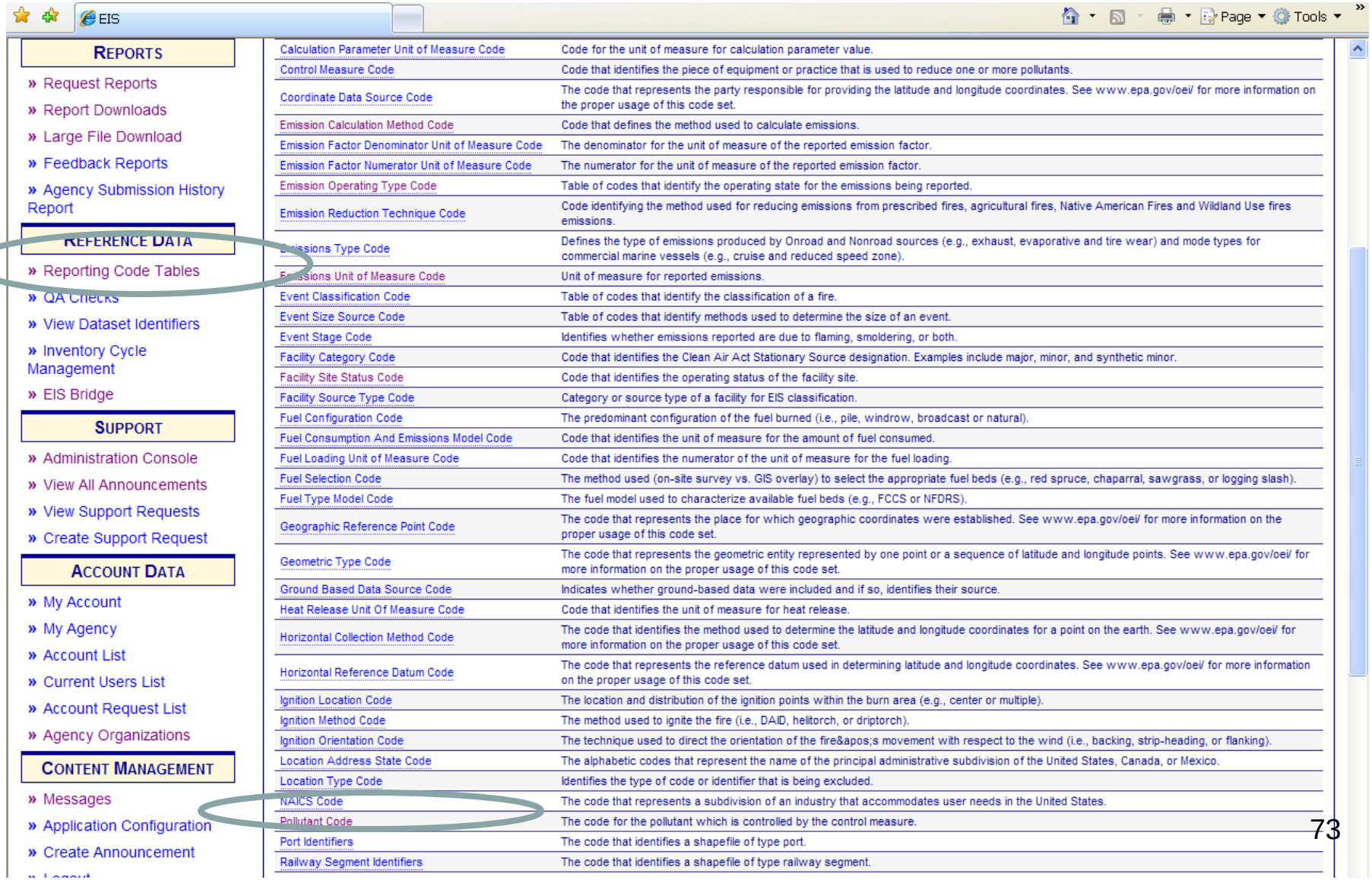


Emission Summary by Geography (1)



Emission Summary by Geography (2)

Where do I find Codes?



Calculation Parameter Unit of Measure Code	Code for the unit of measure for calculation parameter value.
Control Measure Code	Code that identifies the piece of equipment or practice that is used to reduce one or more pollutants.
Coordinate Data Source Code	The code that represents the party responsible for providing the latitude and longitude coordinates. See www.epa.gov/oei/ for more information on the proper usage of this code set.
Emission Calculation Method Code	Code that defines the method used to calculate emissions.
Emission Factor Denominator Unit of Measure Code	The denominator for the unit of measure of the reported emission factor.
Emission Factor Numerator Unit of Measure Code	The numerator for the unit of measure of the reported emission factor.
Emission Operating Type Code	Table of codes that identify the operating state for the emissions being reported.
Emission Reduction Technique Code	Code identifying the method used for reducing emissions from prescribed fires, agricultural fires, Native American Fires and Wildland Use fires emissions.
Emissions Type Code	Defines the type of emissions produced by Onroad and Nonroad sources (e.g., exhaust, evaporative and tire wear) and mode types for commercial marine vessels (e.g., cruise and reduced speed zone).
Emissions Unit of Measure Code	Unit of measure for reported emissions.
Event Classification Code	Table of codes that identify the classification of a fire.
Event Size Source Code	Table of codes that identify methods used to determine the size of an event.
Event Stage Code	Identifies whether emissions reported are due to flaming, smoldering, or both.
Facility Category Code	Code that identifies the Clean Air Act Stationary Source designation. Examples include major, minor, and synthetic minor.
Facility Site Status Code	Code that identifies the operating status of the facility site.
Facility Source Type Code	Category or source type of a facility for EIS classification.
Fuel Configuration Code	The predominant configuration of the fuel burned (i.e., pile, windrow, broadcast or natural).
Fuel Consumption And Emissions Model Code	Code that identifies the unit of measure for the amount of fuel consumed.
Fuel Loading Unit of Measure Code	Code that identifies the numerator of the unit of measure for the fuel loading.
Fuel Selection Code	The method used (on-site survey vs. GIS overlay) to select the appropriate fuel beds (e.g., red spruce, chaparral, sawgrass, or logging slash).
Fuel Type Model Code	The fuel model used to characterize available fuel beds (e.g., FCCS or NFDRS).
Geographic Reference Point Code	The code that represents the place for which geographic coordinates were established. See www.epa.gov/oei/ for more information on the proper usage of this code set.
Geometric Type Code	The code that represents the geometric entity represented by one point or a sequence of latitude and longitude points. See www.epa.gov/oei/ for more information on the proper usage of this code set.
Ground Based Data Source Code	Indicates whether ground-based data were included and if so, identifies their source.
Heat Release Unit Of Measure Code	Code that identifies the unit of measure for heat release.
Horizontal Collection Method Code	The code that identifies the method used to determine the latitude and longitude coordinates for a point on the earth. See www.epa.gov/oei/ for more information on the proper usage of this code set.
Horizontal Reference Datum Code	The code that represents the reference datum used in determining latitude and longitude coordinates. See www.epa.gov/oei/ for more information on the proper usage of this code set.
Ignition Location Code	The location and distribution of the ignition points within the burn area (e.g., center or multiple).
Ignition Method Code	The method used to ignite the fire (i.e., DAID, helitorch, or driptorch).
Ignition Orientation Code	The technique used to direct the orientation of the fire's movement with respect to the wind (i.e., backing, strip-heading, or flanking).
Location Address State Code	The alphabetic codes that represent the name of the principal administrative subdivision of the United States, Canada, or Mexico.
Location Type Code	Identifies the type of code or identifier that is being excluded.
NAICS Code	The code that represents a subdivision of an industry that accommodates user needs in the United States.
Pollutant Code	The code for the pollutant which is controlled by the control measure.
Port Identifiers	The code that identifies a shapefile of type port.
Railway Segment Identifiers	The code that identifies a shapefile of type railway segment.

Pollutant codes-example
See what is retired and what is not

Pollutant Codes

Name: Pollutant Code

Description: The code for the pollutant which is controlled by the control measure.

Show 25 entries

Status: Active (All / Active / Retired)

Pollutant Code	Description	Type	Pollutant Category Name	Last Inventory Year
VOC	Volatile Organic Compounds	CAP	Volatile Organic Compounds	
SO2	Sulfur Dioxide	CAP	Sulfur Dioxide	
SF6	Sulfur Hexafluoride	GHG	Sulfur Hexafluoride	
PM25-PRI	PM2.5 Primary (Filt + Cond)	CAP	PM2.5 Primary (Filt + Cond)	
PM25-FIL	PM2.5 Filterable	CAP	PM2.5 Filterable	
PM10-PRI	PM10 Primary (Filt + Cond)	CAP	PM10 Primary (Filt + Cond)	
PM10-FIL	PM10 Filterable	CAP	PM10 Filterable	
PM-CON	PM Condensible	CAP	PM Condensible	
PFC	Perfluorocarbons	GHG	Perfluorocarbons	
NOX	Nitrogen Oxides	CAP	Nitrogen Oxides	
NH3	Ammonia	CAP	Ammonia	
N2O	Nitrous Oxide	GHG	Nitrous Oxide	
HFC	Hydrofluorocarbons	GHG	Hydrofluorocarbons	
CO2	Carbon Dioxide	GHG	Carbon Dioxide	
CO	Carbon Monoxide	CAP	Carbon Monoxide	
CH4	Methane	GHG	Methane	
98953	Nitrobenzene	HAP	Nitrobenzene	

EPA Review of Your data

- Completeness
- Outliers
- Priority Facility/Pollutant List
- Voluntary review packages to improved targeted data elements such as
  - Design capacity
  - SCC code improvements (aimed possibly at 3999s)
  - Or emissions from specific industry sectors

Putting it all Together- the "Selection"

- Preference is to use the S/L/T data first in the hierarchy
- Other data sources used below hierarchy (for example– there may be others)
  - 2011 TRI
  - HAP aug
- Data sources that may be used above S/L/T (for example– there may be others)
  - PM aug
  - Chromium speciation
  - Some rule data
- Draft 2011 release for SLT review

RECAP of changes
What will change for 2011 POINT submissions?

- Pollutant codes retired/unretired/added
- New QA checks
  - Critical emissions range
  - Critical double counting pollutants with grouped pollutants
  - Critical if you report PM2.5 and not PM10 and if PM2.5>PM10
- Not collecting aircraft LTO'S in EIS
- Updated Emission Factors (EGUs, EAFs, maybe more)
- List of Priority Polls/Facilities

Web Resources

- One pagers
  - How to gain access to the Gateway
  - How to change your password
  - How to submit data using the Web Client

http://www.epa.gov/ttn/chief/eis/index.html

- 2008 NEI/EIS Implementation Plan

http://www.epa.gov/ttn/chief/net/neip/index.htm

- 2011 –specific information to be posted (http://www.epa.gov/ttn/chief/eiinformation.html)

Contacts

- Submission Issues
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- Inventory Issues
  - Ron Ryan – ryan.ron@epa.gov, 919-541-4330
  - Madeleine Strum – strum.madeleine@epa.gov, 919-541-2383