US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

Emission Inventory System Reports Course

Sally Dombrowski

dombrowski.sally@epa.gov

919-541-3269

US EPA ARCHIVE DOCUMENT

Types of Reports

- Feedback Reports
  - First line of QA on your submission
- Snapshot
  - CERs xml format
  - Done separately for the various data categories
  - Requires use of the Bridge Tool to convert
  - Replica of the staging tables
  - Can only be run on a single agency emissions data set and not the general purpose release.
- Emissions Summaries
  - Summarized data at geographic or facility level
  - Can be run on both the responsible agency and the general purpose release.
- Agency Submission History Report
  - Excellent QA tool for point and nonpoint
    - Have you reported all of the facilities which you should report for?
    - Have you reported all of your SCCs for nonpoint
- Facility Configuration Reports
  - CSV format
  - Can be imported into Excel or Access as a text file
  - Flat files by Regulations, Process/Unit, Release Point, Facility, Alternative Identifiers and Controls
  - No emissions

US EPA ARCHIVE DOCUMENT

Feedback Reports

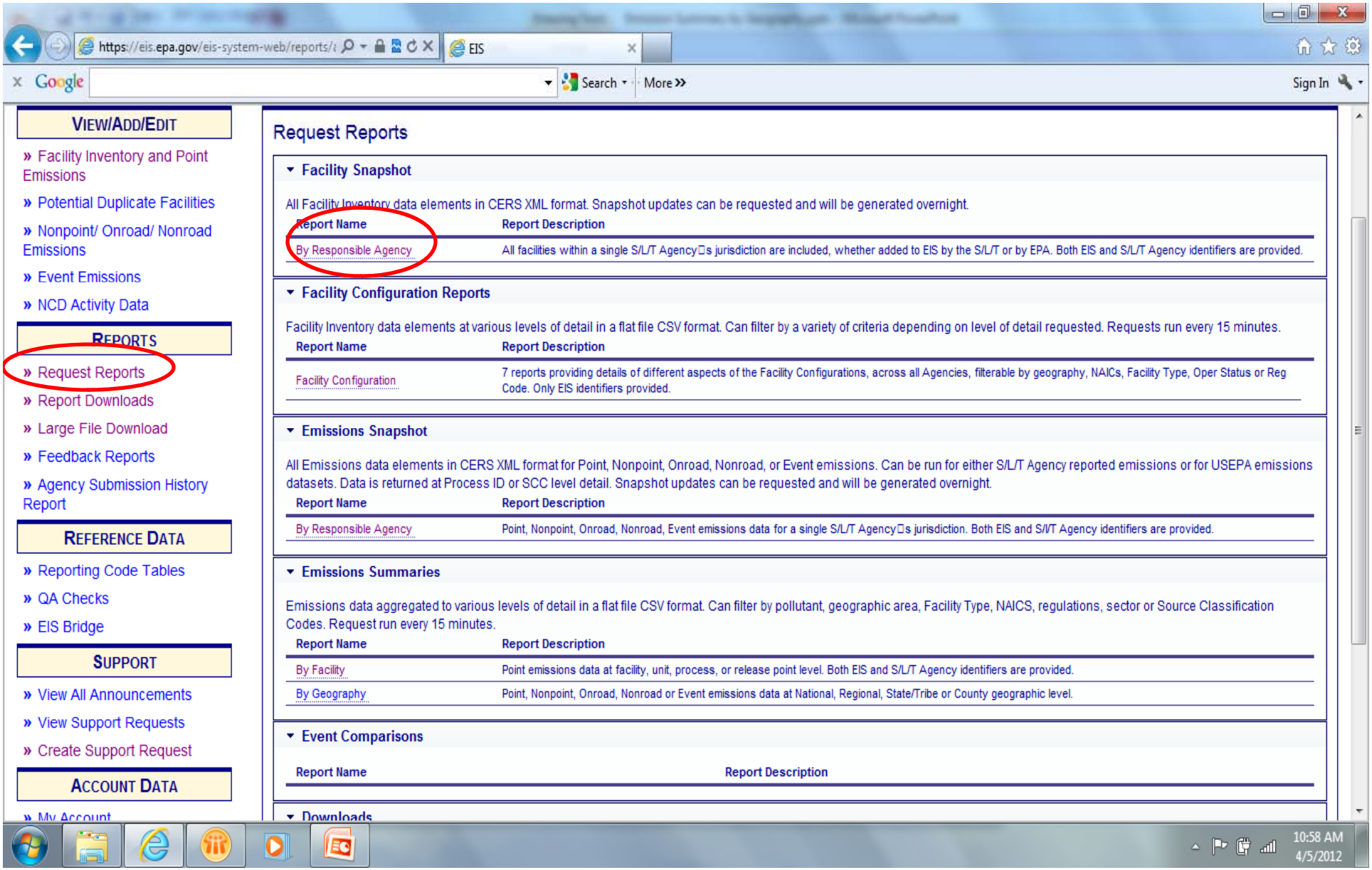
- QA and Production
- Statistics worksheet is very important to review
  - Do the number of records match the records you are submitting
  - Does the number of emission process match the number of reporting periods
  - Do you have a very large number of facility, unit and process changes when submitting a batch upload for the facility inventory
  - Recommend noting the number of records in each file and the CDX identifier when the file is submitted.
- Critical and Warning Errors
- Sample Feedback Report

US EPA ARCHIVE DOCUMENT

Feedback Reports

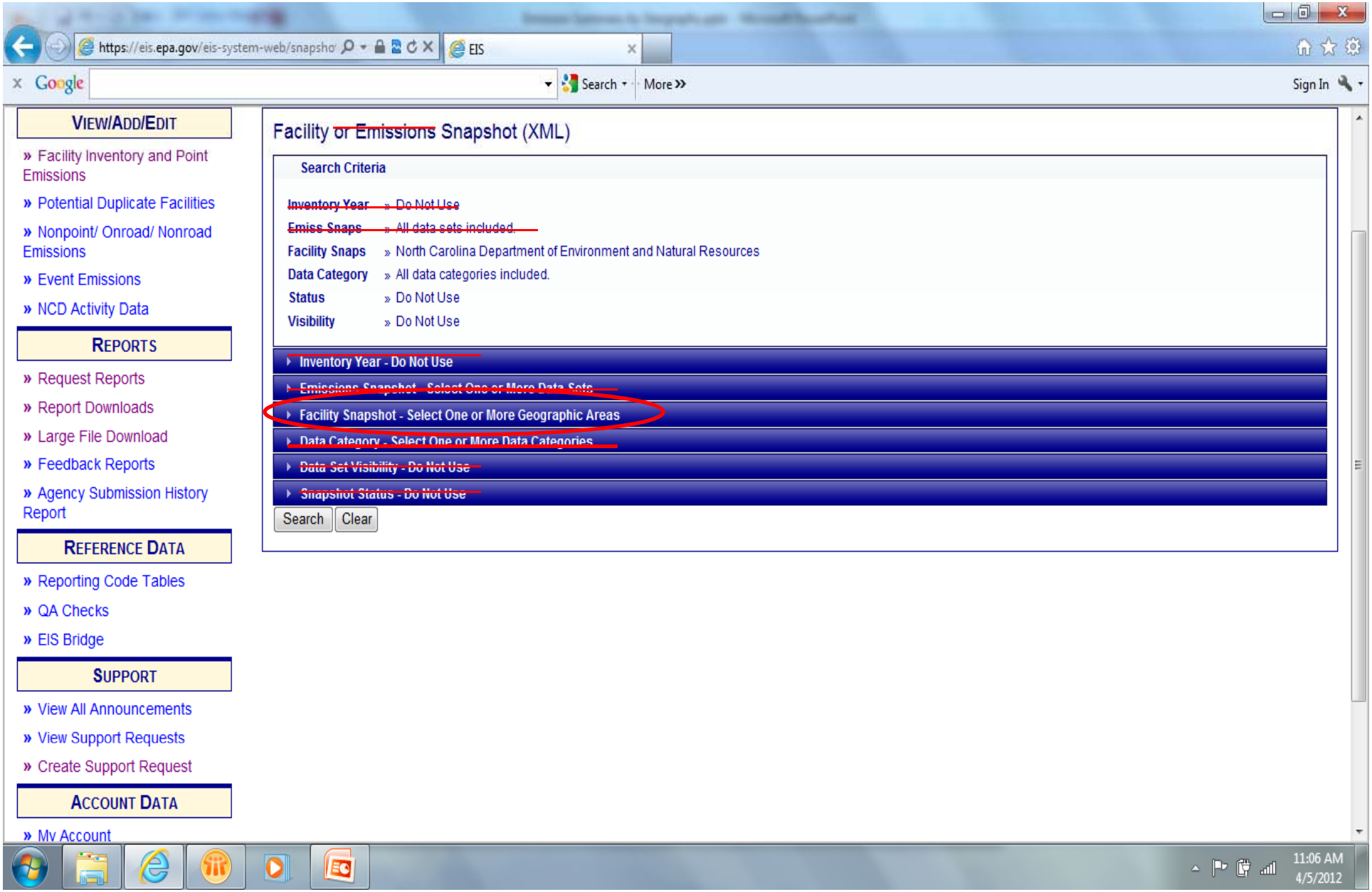
US EPA ARCHIVE DOCUMENT

Snapshots – Facility



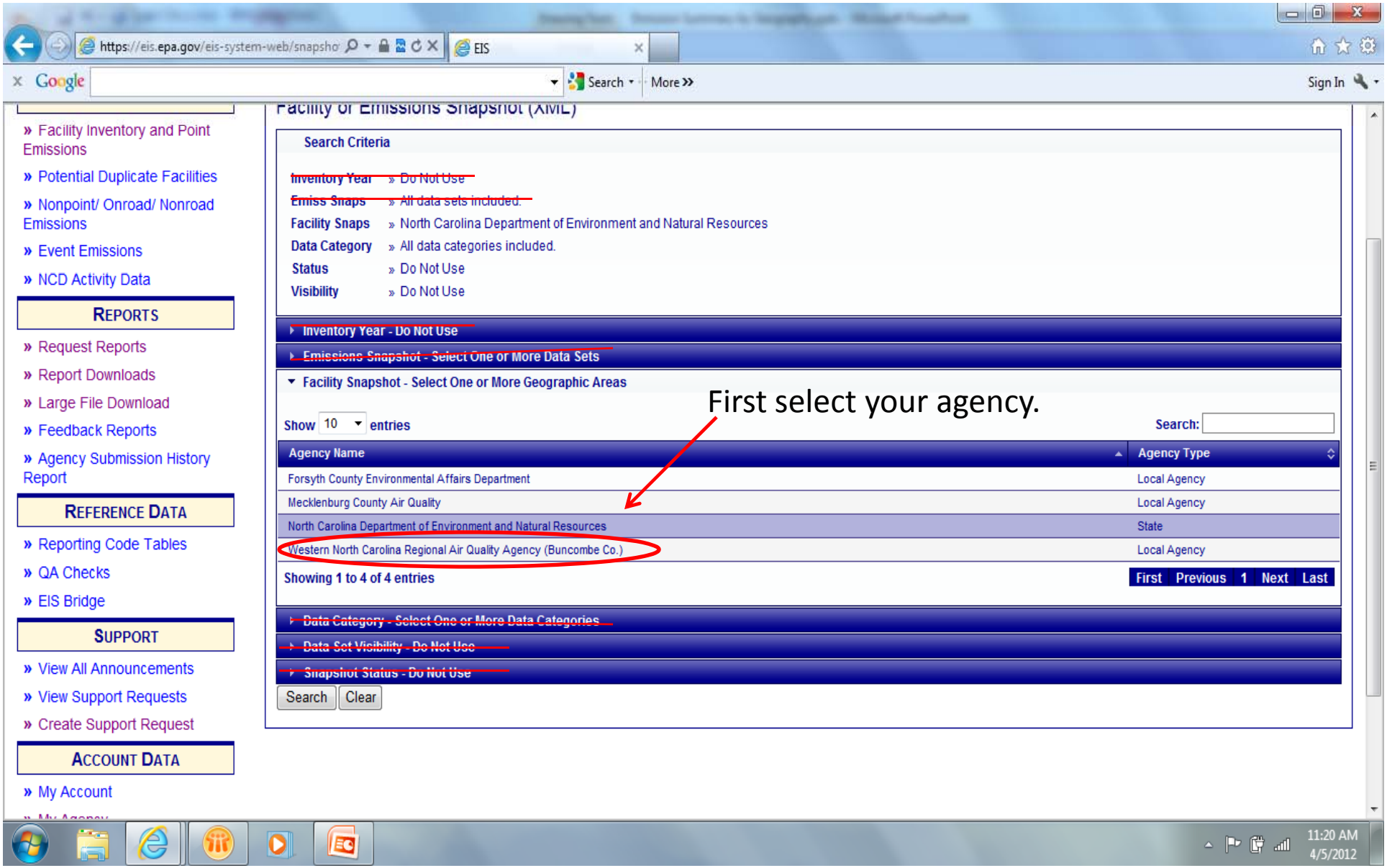
US EPA ARCHIVE DOCUMENT

Snapshots - Facility



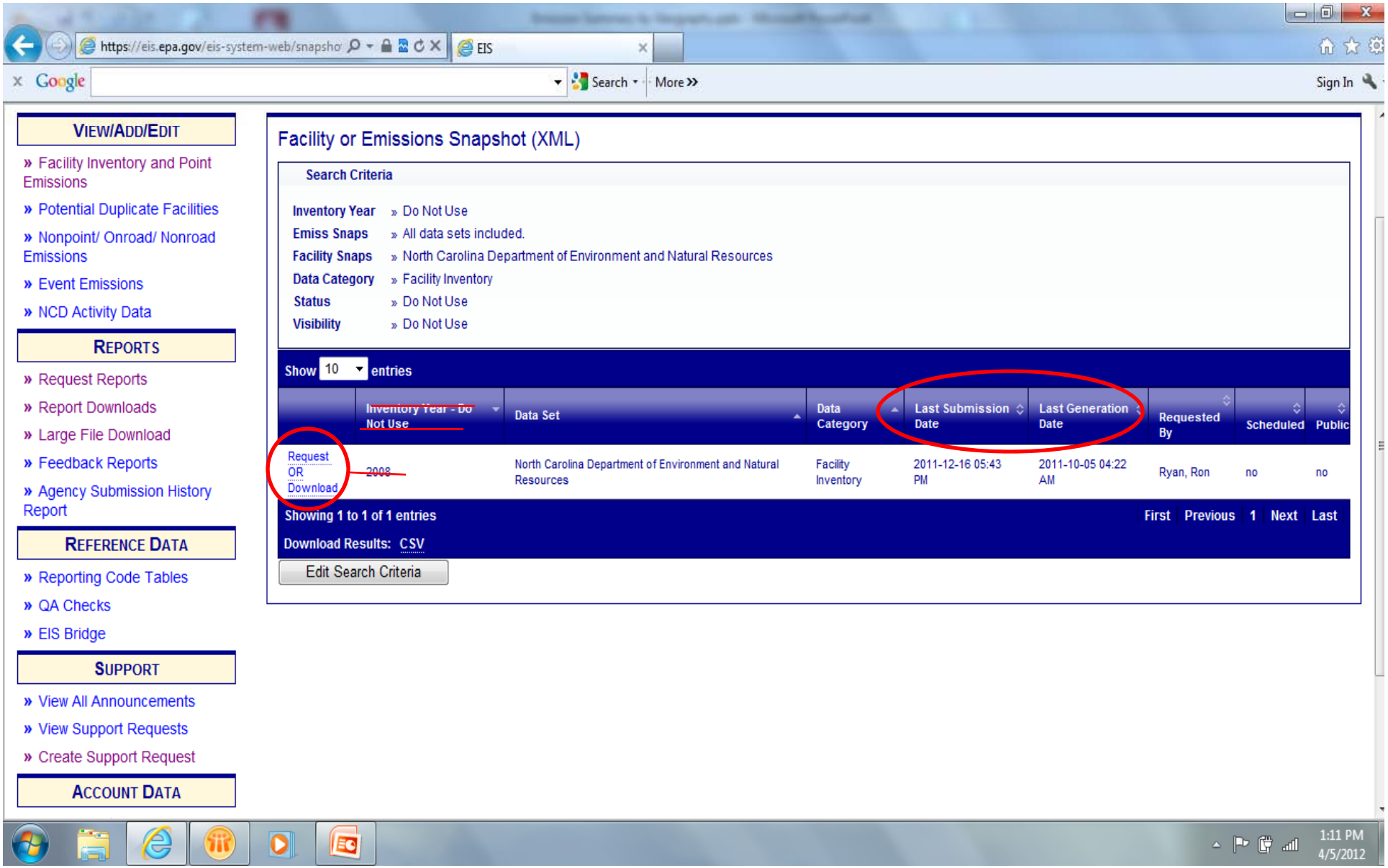
US EPA ARCHIVE DOCUMENT

Snapshot - Facility



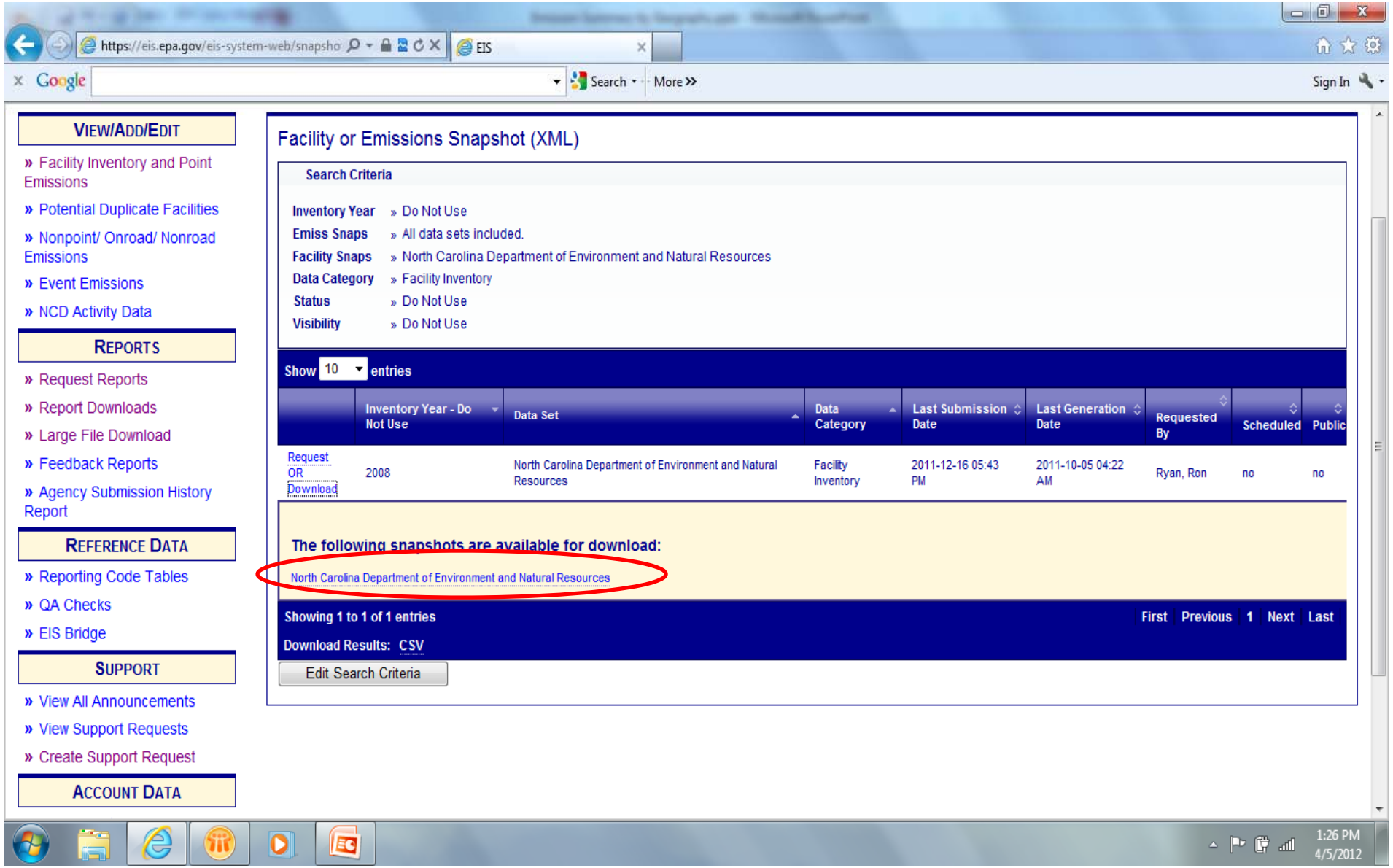
US EPA ARCHIVE DOCUMENT

Snapshot - Facility



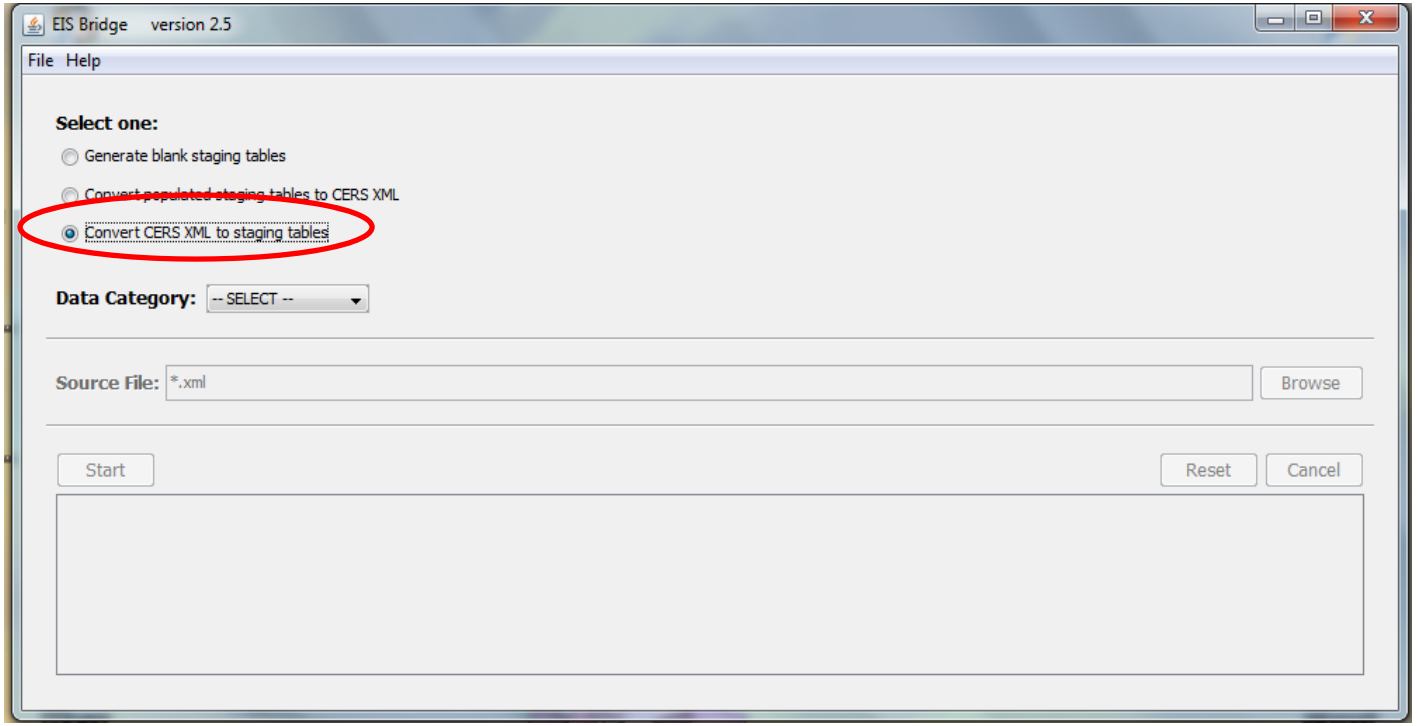
US EPA ARCHIVE DOCUMENT

Snapshot - Facility



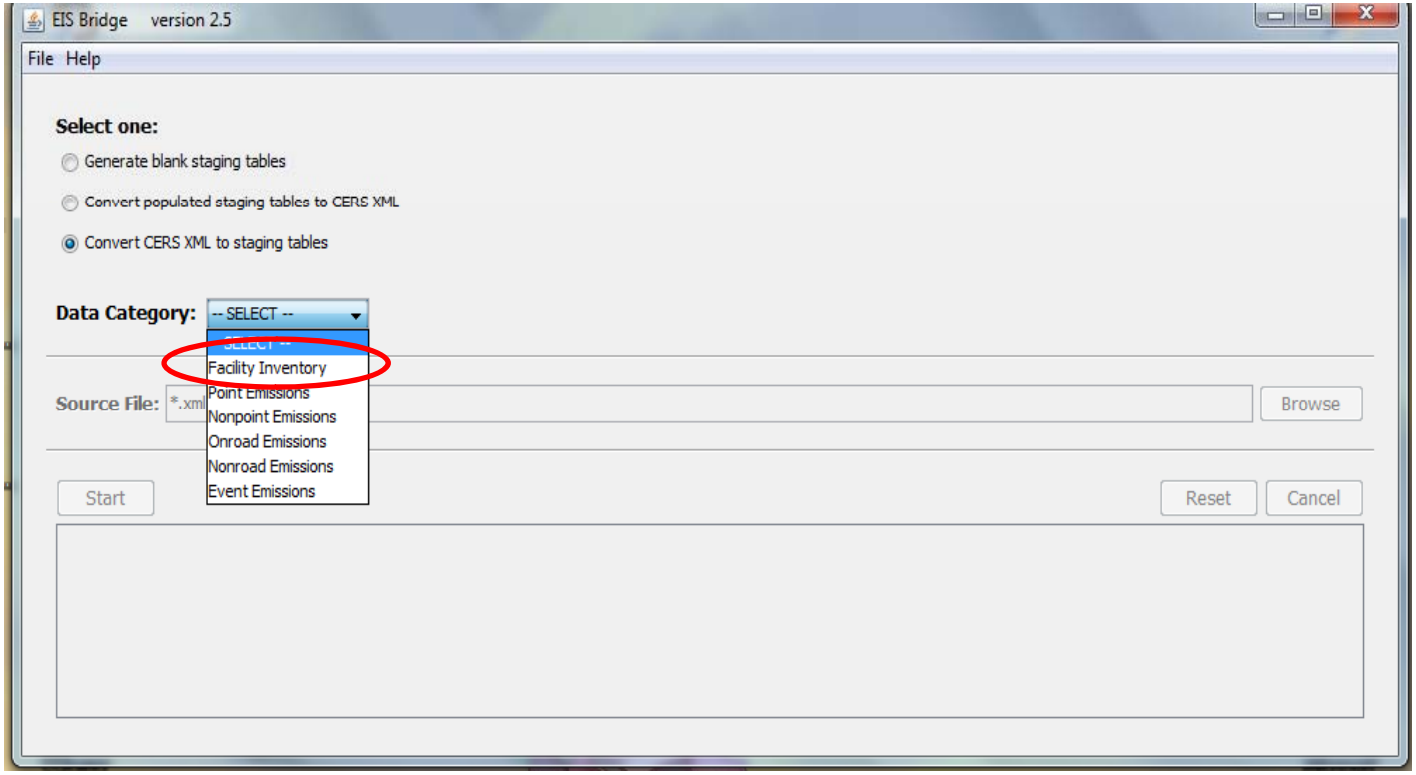
US EPA ARCHIVE DOCUMENT

Snapshot - Facility



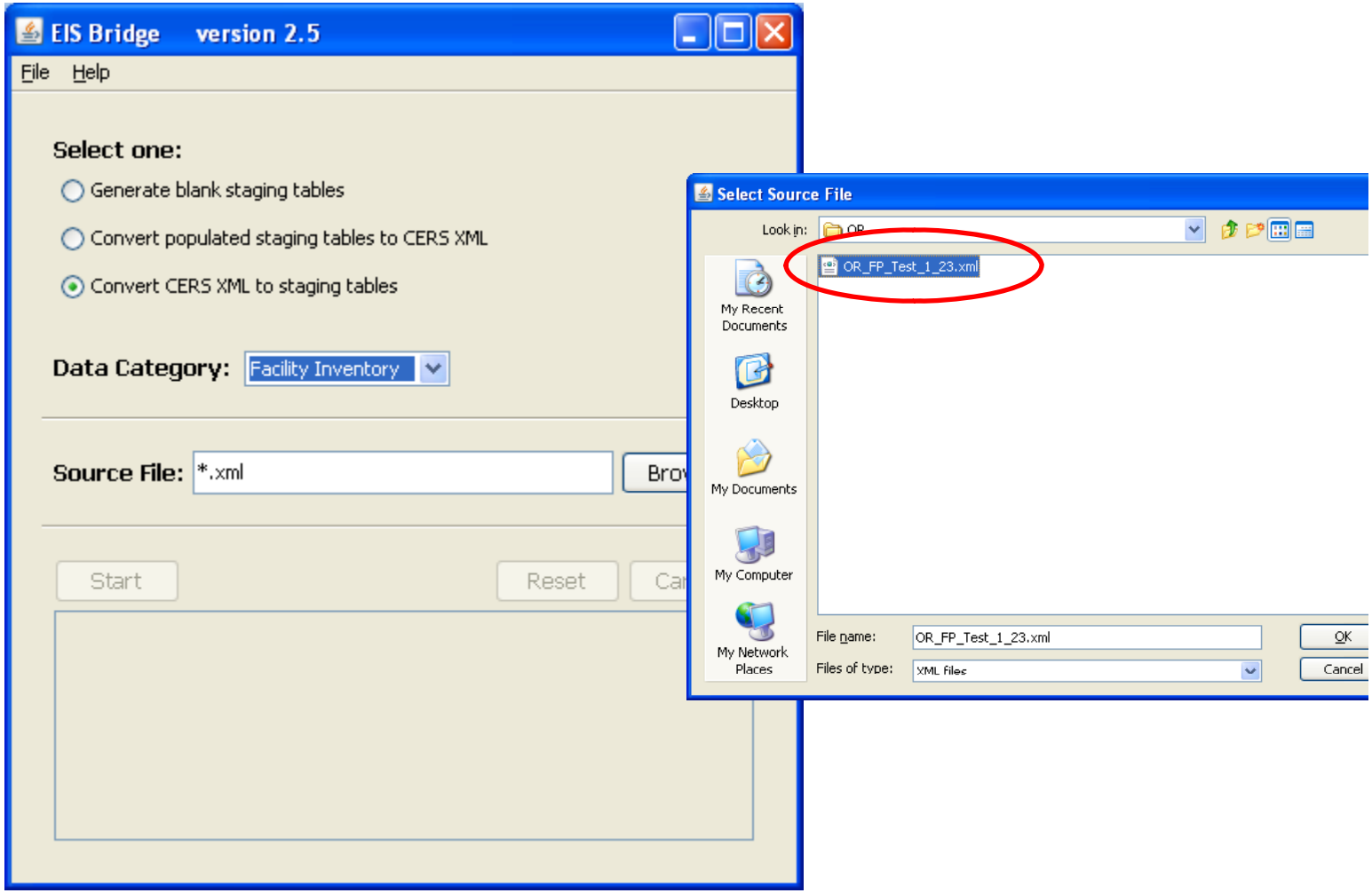
US EPA ARCHIVE DOCUMENT

Snapshot - Facility



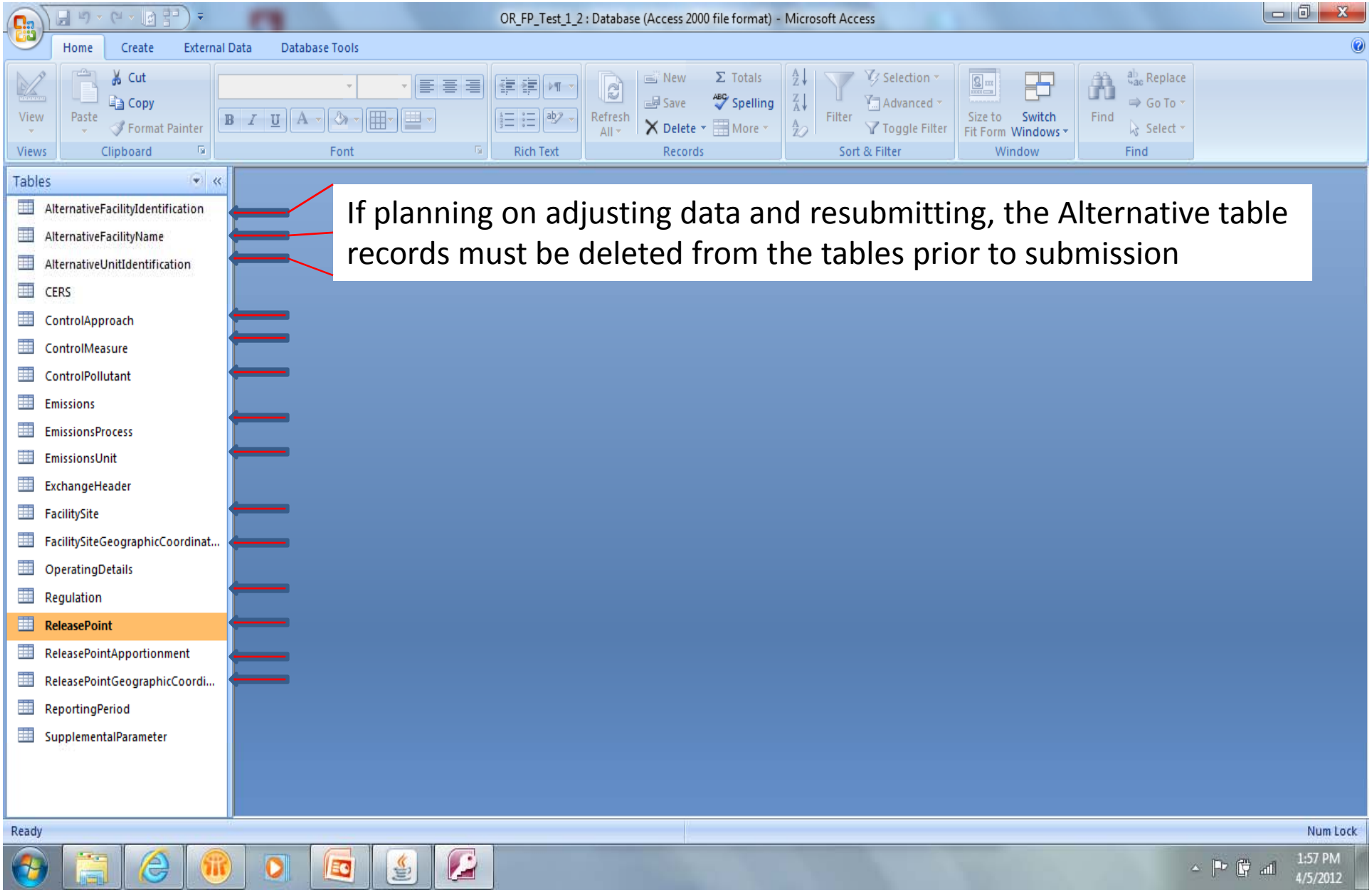
US EPA ARCHIVE DOCUMENT

Snapshot - Facility



US EPA ARCHIVE DOCUMENT

Staging Tables



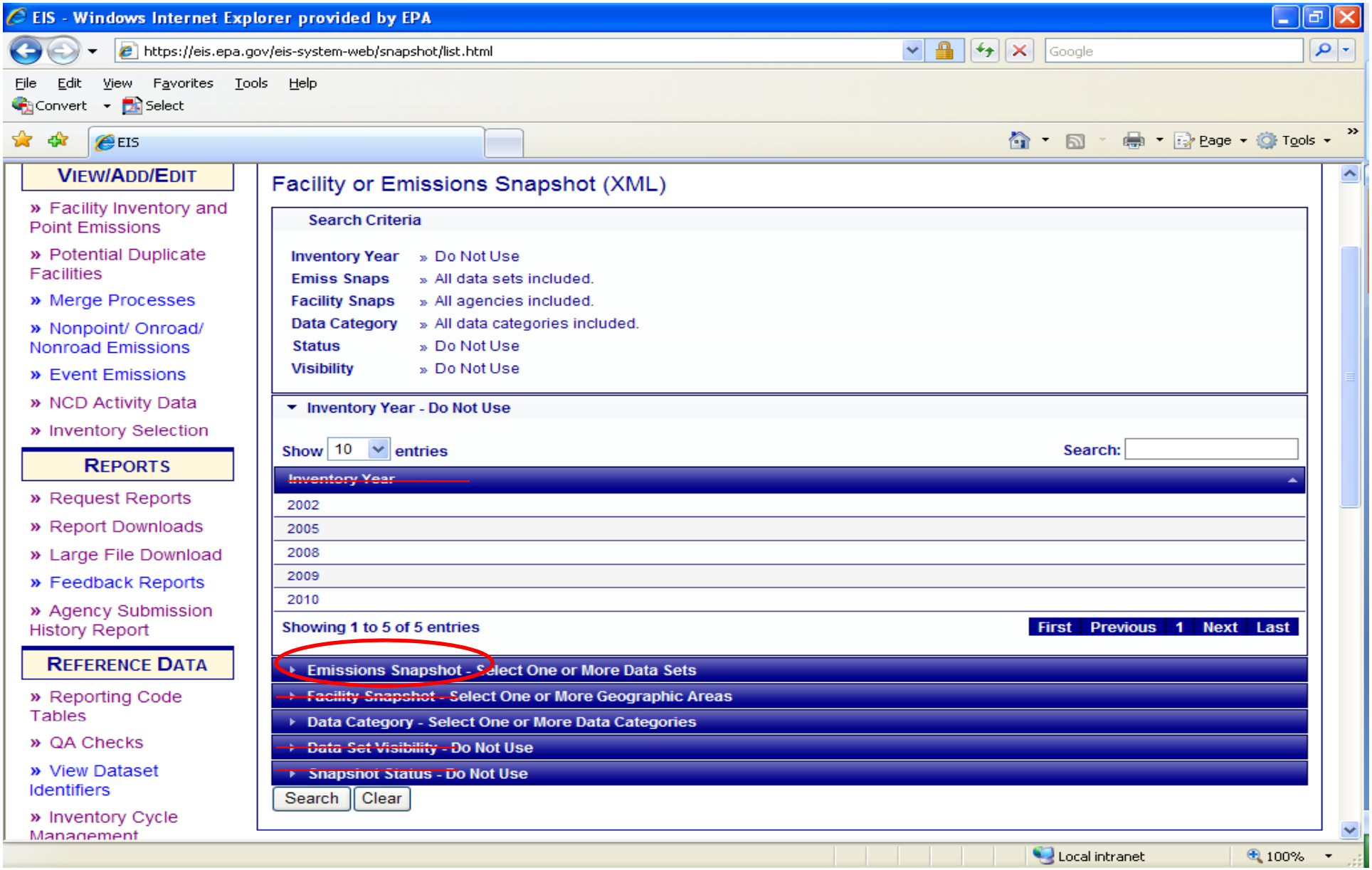
US EPA ARCHIVE DOCUMENT

When would I want to use a facility snapshot?

- Could be used to compare current EIS facilities, IDs, processes, controls, etc. to your updated Agency system version.
- Could be used to do a mass change of identifiers for facilities, units, processes and/or release points.

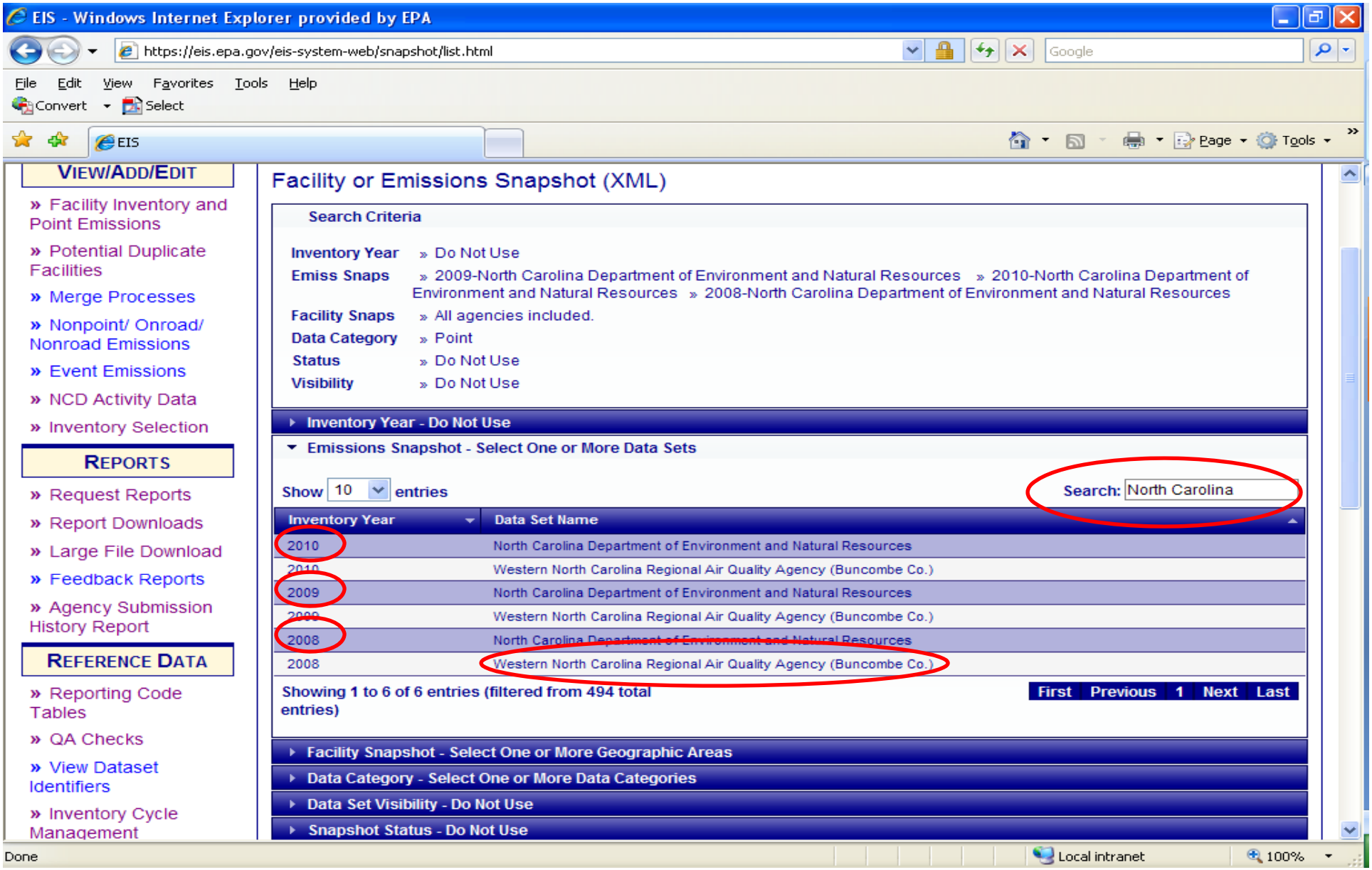
US EPA ARCHIVE DOCUMENT

Emissions Snapshot



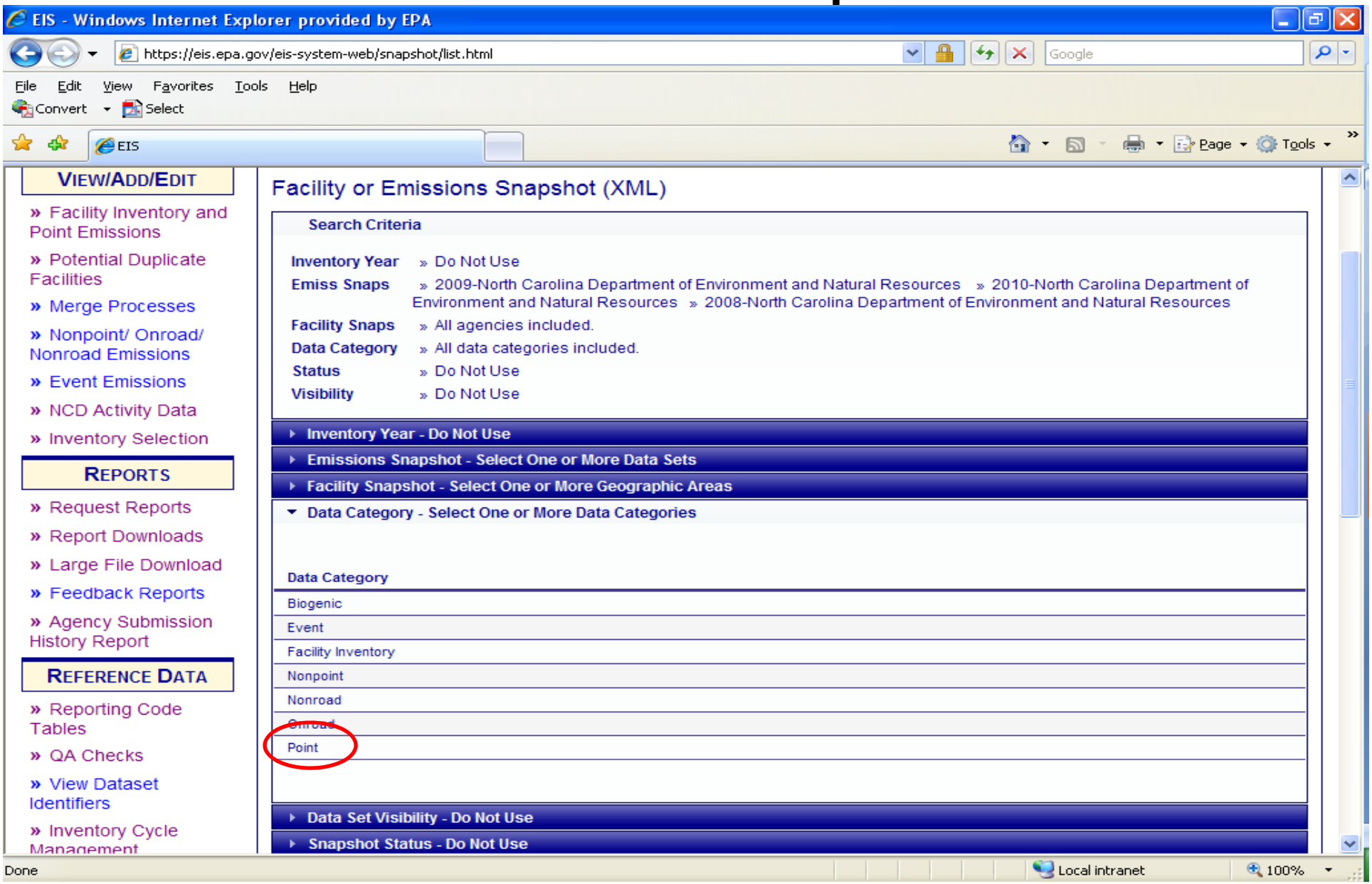
US EPA ARCHIVE DOCUMENT

Emissions Snapshot



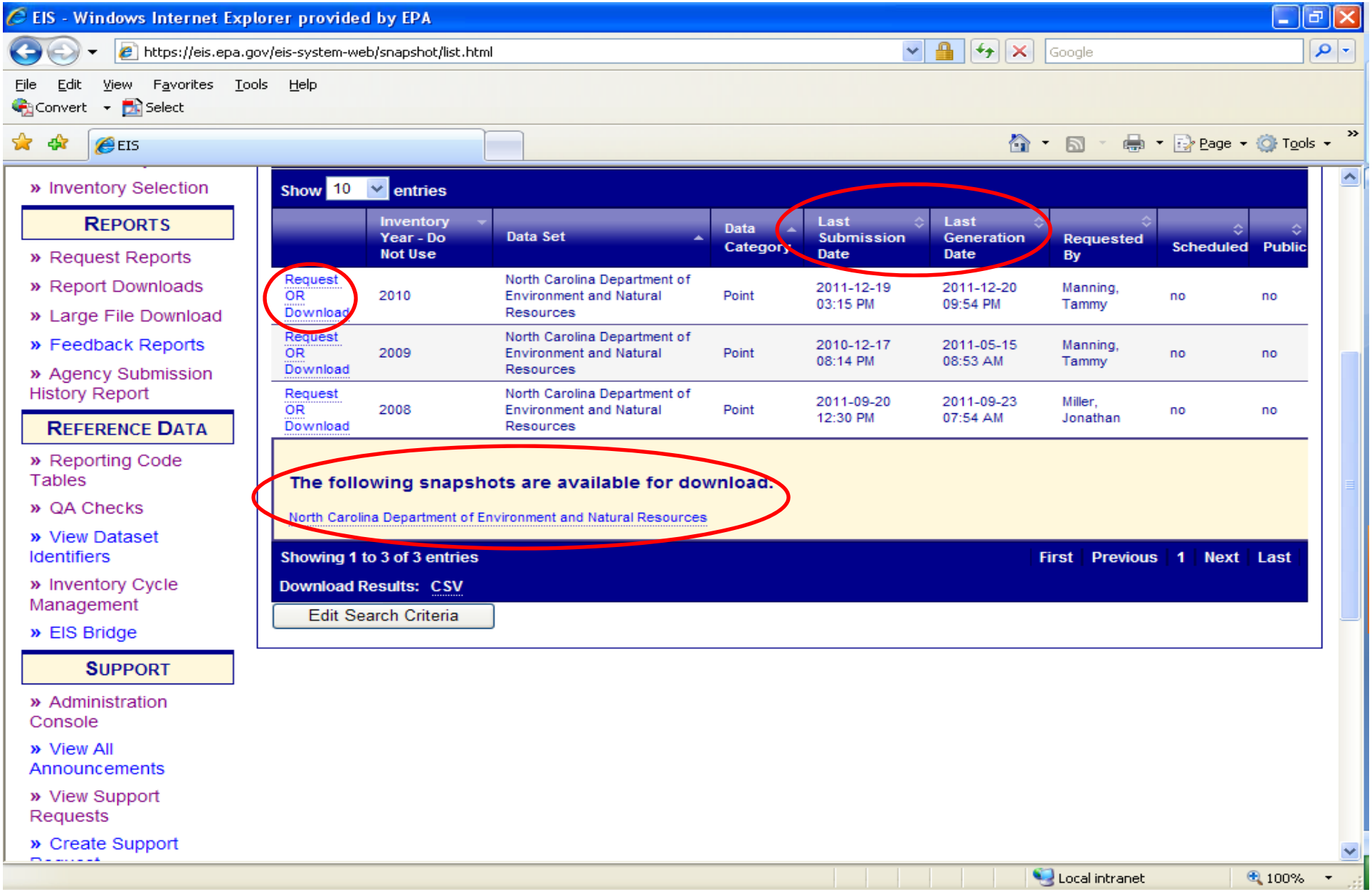
US EPA ARCHIVE DOCUMENT

Emissions Snapshot



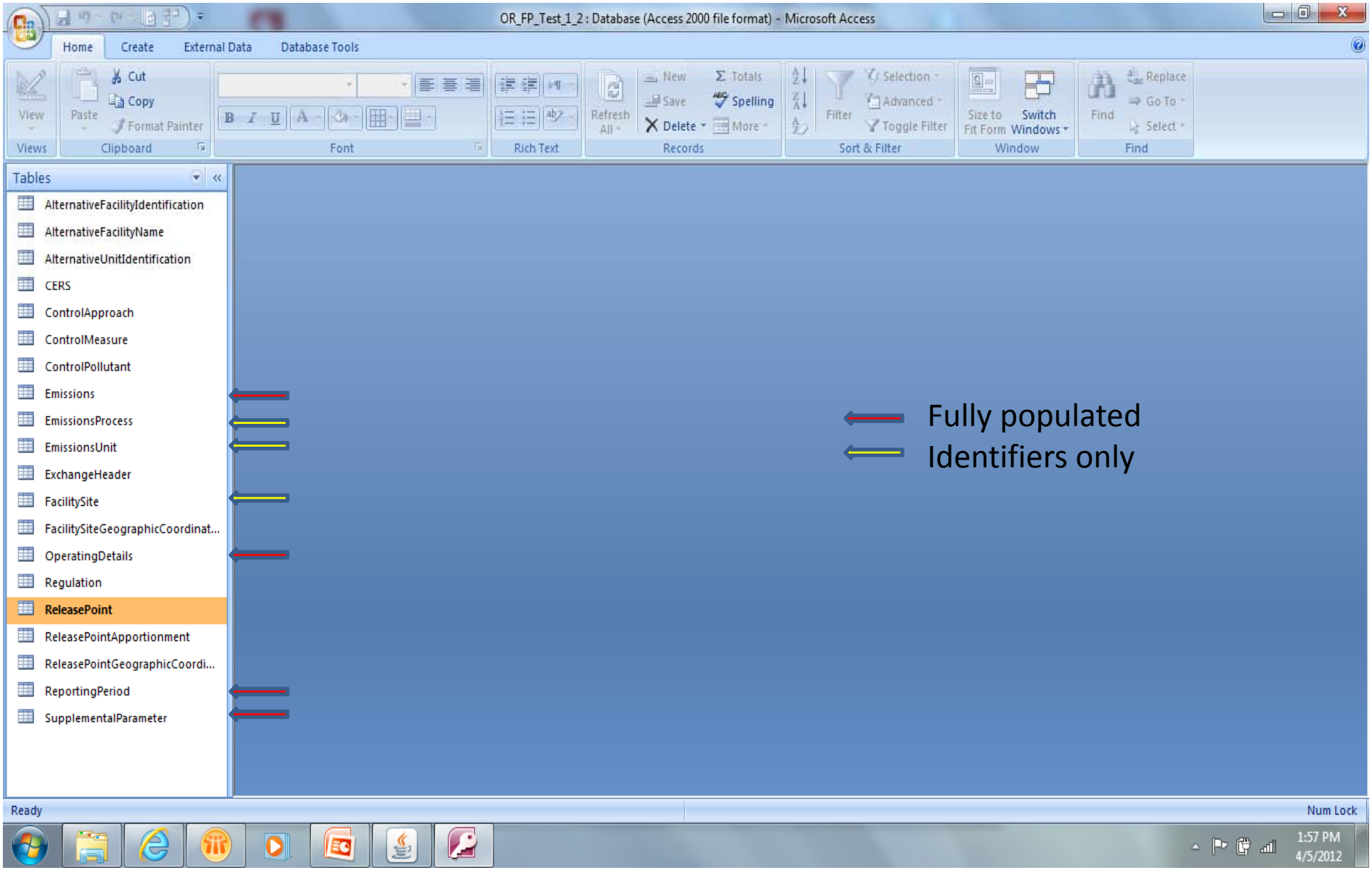
US EPA ARCHIVE DOCUMENT

Emissions Snapshot



US EPA ARCHIVE DOCUMENT

Emissions Snapshot



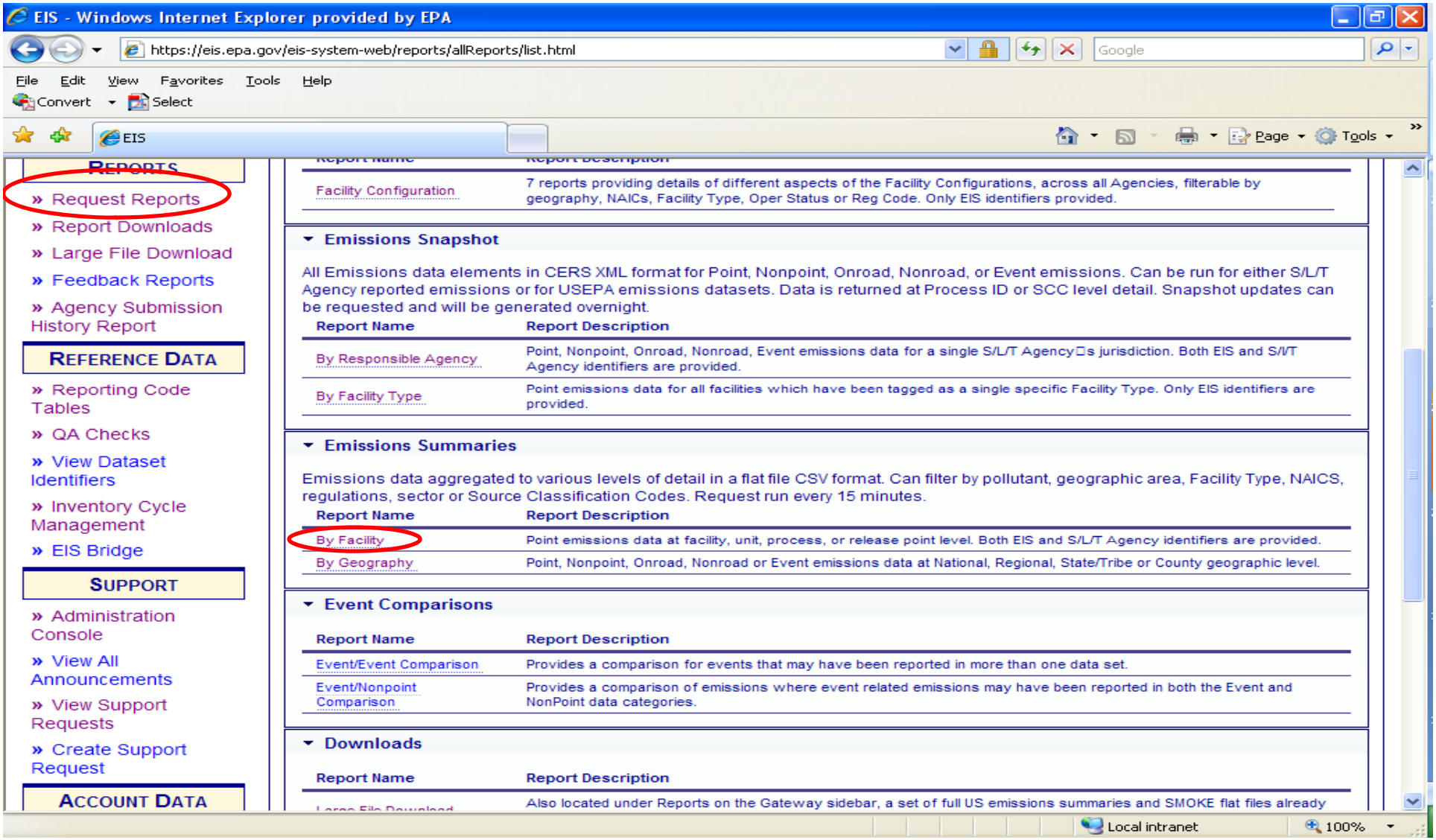
US EPA ARCHIVE DOCUMENT

What can the Emissions Snapshot be used for?

- Could be used to submit emissions data by updating the Reporting Period and Emissions tables.
- Checking emission factors, throughputs and other fields that are not available in other reports
- Correcting a single pollutant and resubmitting the other pollutant emissions “as is”

US EPA ARCHIVE DOCUMENT

Emissions Summaries by Facility

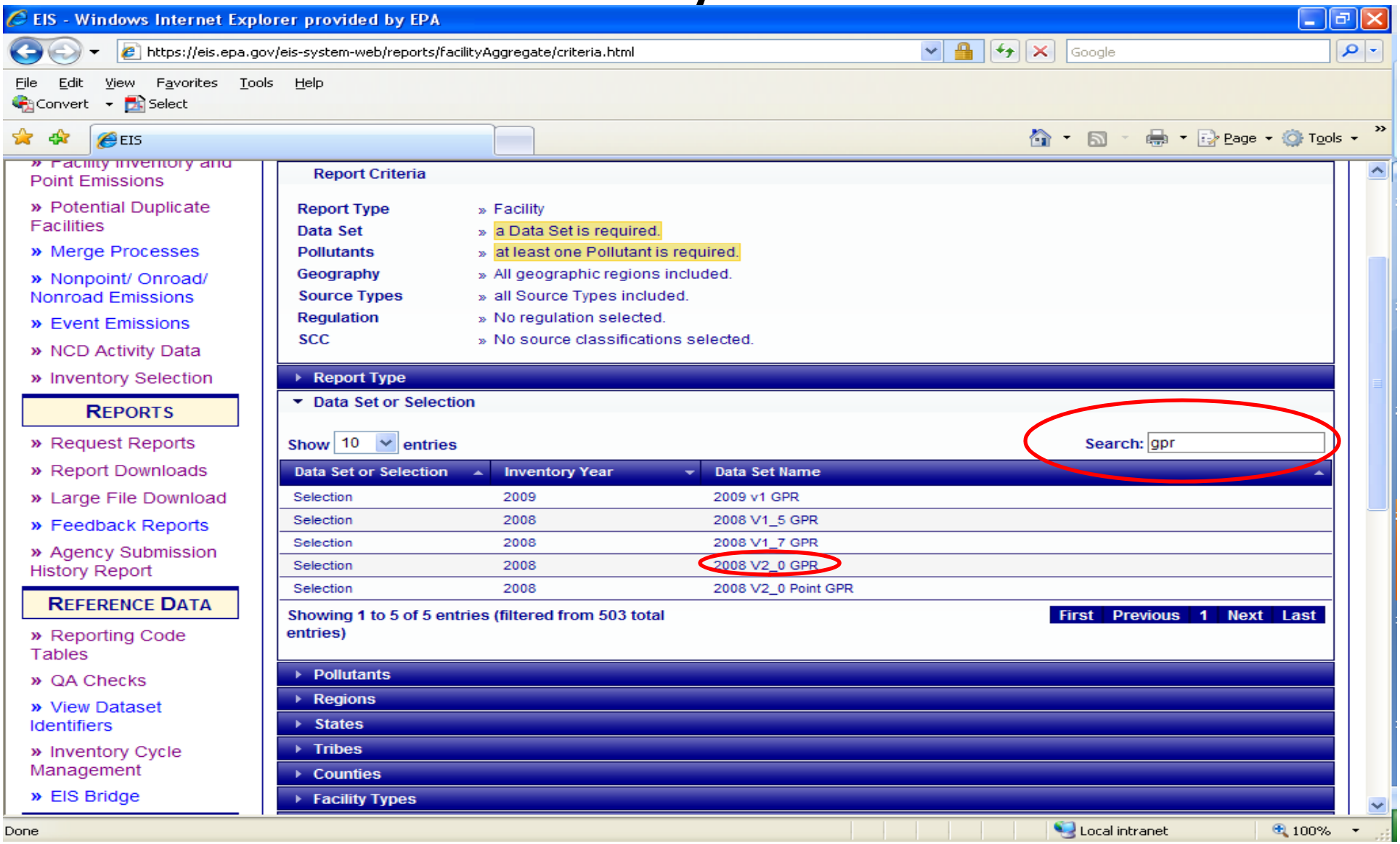


US EPA ARCHIVE DOCUMENT

Emissions Summaries by Facility

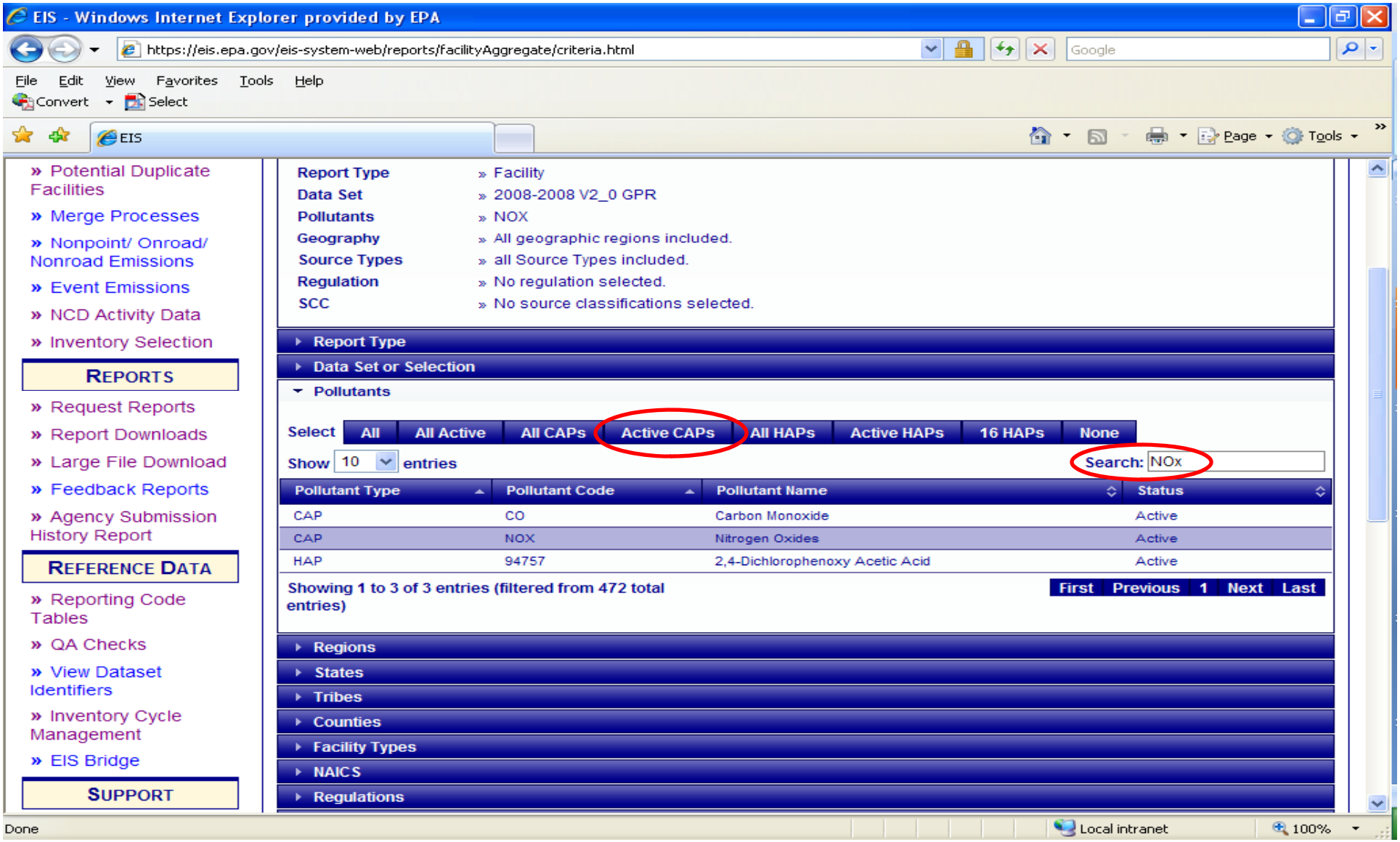
US EPA ARCHIVE DOCUMENT

Emissions Summary by Facility Facility Level



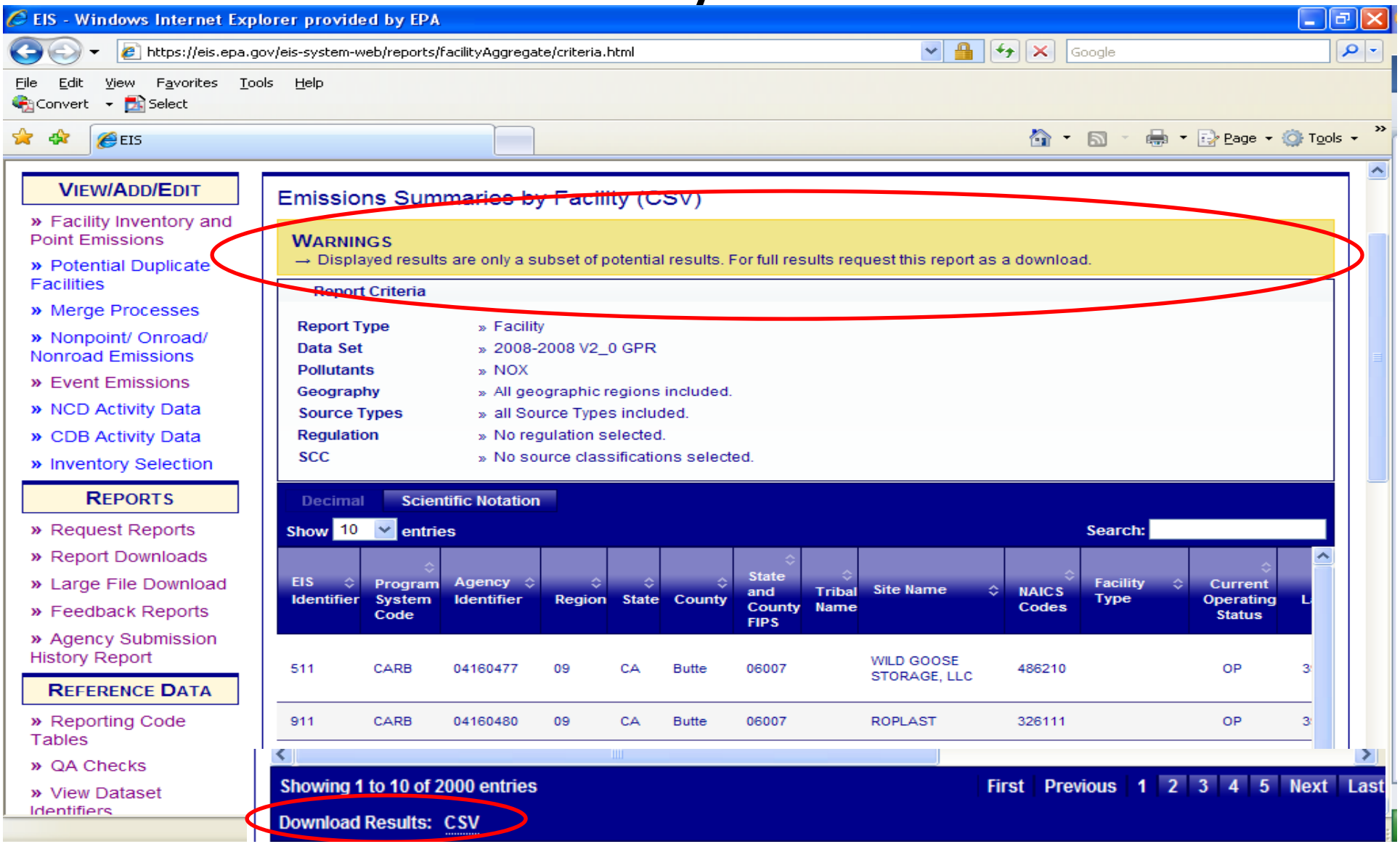
US EPA ARCHIVE DOCUMENT

Emissions Summary by Facility
Facility Level



US EPA ARCHIVE DOCUMENT

Emissions Summary by Facility Facility Level



US EPA ARCHIVE DOCUMENT

Emission Summary by Facility Facility Level

- EIS Facility Identifier
- Agency Facility Identifier
- Program System Code
- Region
- State
- County
- FIPS
- Tribal Code
- Tribal Name
- Facility Name
- NAICS Code
- NAICS Description
- Source Type
- Facility Site Operating Status
- Facility Status Year
- Latitude
- Longitude
- Address
- City
- State
- Zip Code
- Emissions Operating Type
- Pollutant Code
- Pollutant Description
- Total Emissions
- UOM

US EPA ARCHIVE DOCUMENT

Emissions Summary by Facility Unit Level

- EIS Facility Identifier
- Agency Facility Identifier
- Program System Code
- Region
- State
- County
- FIPS
- Tribal Code
- Tribal Name
- Facility Name
- Address
- City
- State
- Zip Code
- NAICS Code
- NAICS Description
- Source Type
- Latitude
- Longitude
- EIS Unit Identifier
- Agency Unit Identifier
- Unit Program System Code
- Unit Type
- Unit Description
- Design Capacity
- Design Capacity UOM
- Emissions Unit Operating Status
- Unit Status Year
- Emissions Operating Type
- Pollutant Code
- Pollutant Description
- Total Emissions
- UOM

US EPA ARCHIVE DOCUMENT

Emission Summary by Facility Process Level– Data Fields

- EIS Facility ID
- Agency Facility ID
- Agency Program System Code
- Region
- State Code
- County
- FIPS
- Tribal Code
- Tribal Name
- Facility name
- NAICS Code
- NAICS Description
- Source Type
- Latitude
- Longitude
- Address
- City
- State
- Zip Code
- EIS Unit ID
- Agency Unit ID
- Unit Type
- Unit Type Description
- EIS Process ID
- Agency Process ID
- SCC
- SCC Level 1
- SCC Level 2
- SCC Level 3
- SCC Level 4
- Emissions Type Code
- Aircraft Engine Type Code
- Aircraft Engine Type Code Description
- Unit Reg Code
- Process Reg Code
- Reg Code Description
- Emissions Operating Type Code
- Pollutant Code
- Pollutant Description
- Total Emissions
- UOM
- Data Set
- **Emissions Calculation Method Code**
- **Emissions Comment**

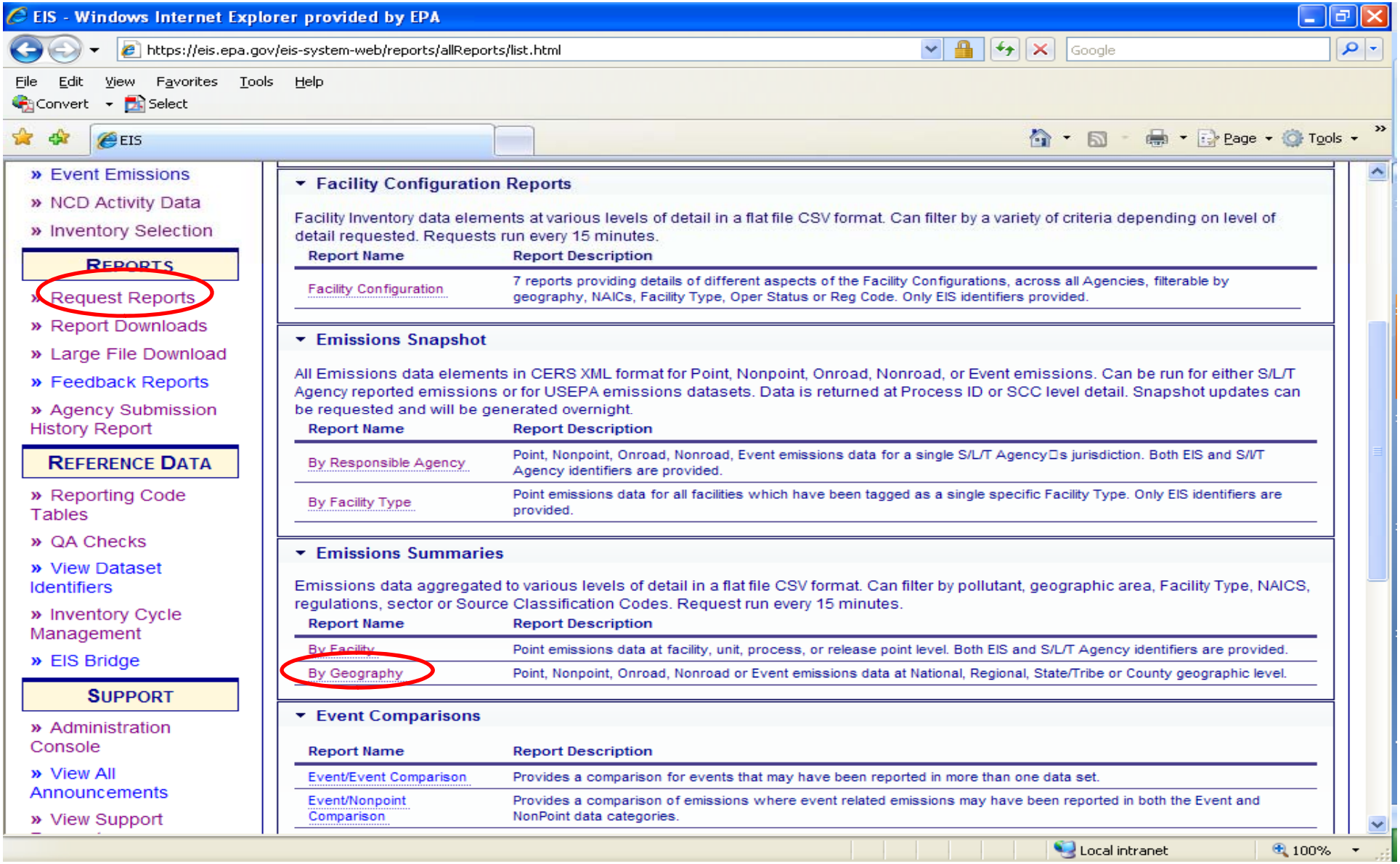
US EPA ARCHIVE DOCUMENT

Emissions Summary by Facility Release Point Level

- EIS Facility ID
- EIS Unit ID
- EIS Process ID
- EIS Release Point ID
- Agency Facility ID
- Agency Unit ID
- Agency Process ID
- SLT Rel Pt ID
- Program System Code
- Process – Rel Pt Apportionment
- Apportionment comment
- Rel Pt Latitude
- Rel Pt Longitude
- Coordinates Protected
- Coordinate Derivation
- Rel Pt Type
- Rel Pt Description
- Stack Ht
- Stack Ht Protected
- Stack Diameter
- Stack Diameter Protected
- Exit Gas Velocity
- Exit Gas Velocity Protected
- Exit Gas Flow Rate
- Exit Gas Flow Rate Protected
- Exit Gas Temperature
- Distance to Fence
- Fugitive Ht
- Fugitive Width
- Fugitive Length
- Fugitive Release Angle
- Rel Pt Status
- Rel Pt Status Year
- Rel Pt Comment

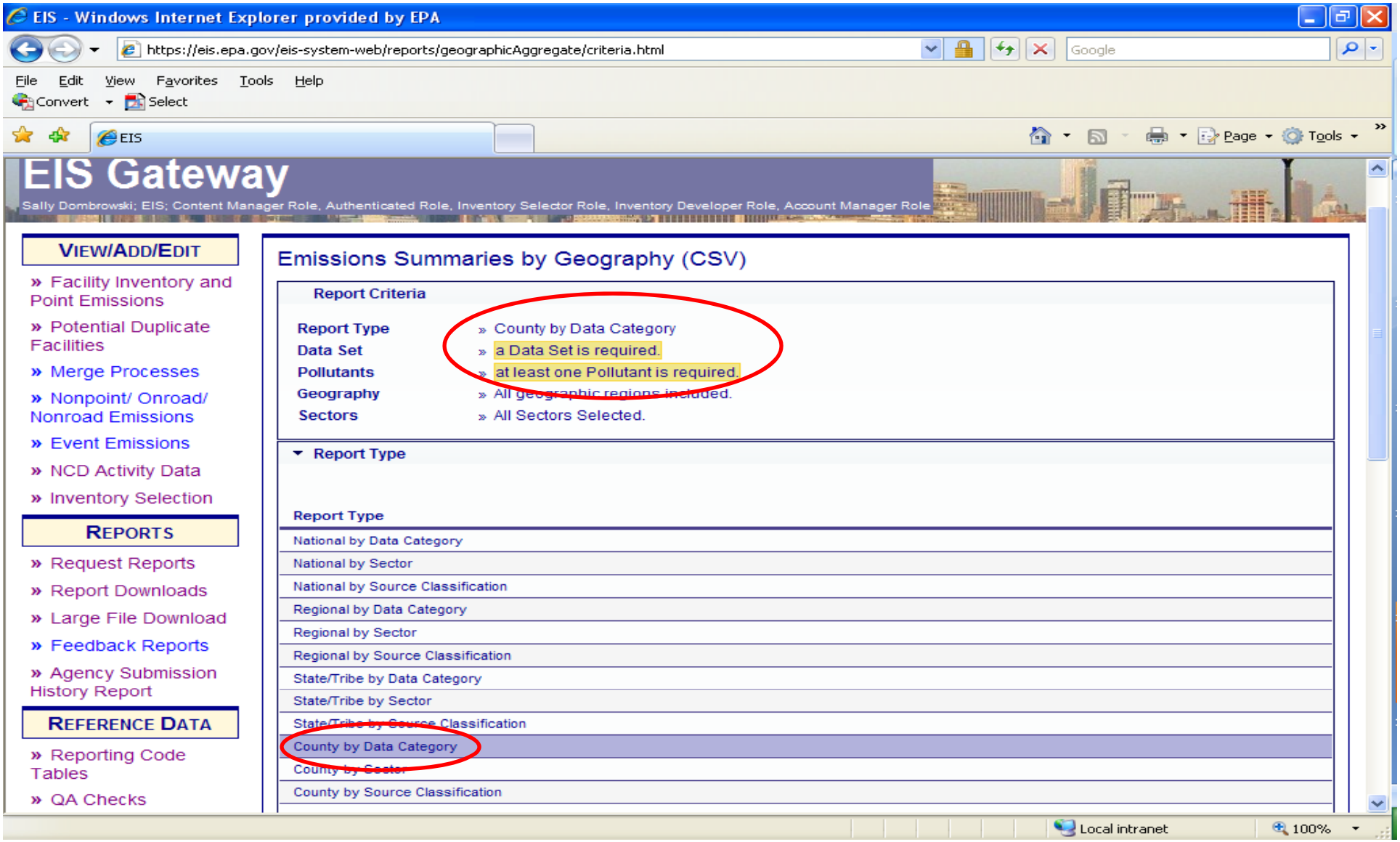
US EPA ARCHIVE DOCUMENT

Emission Summary by Geography



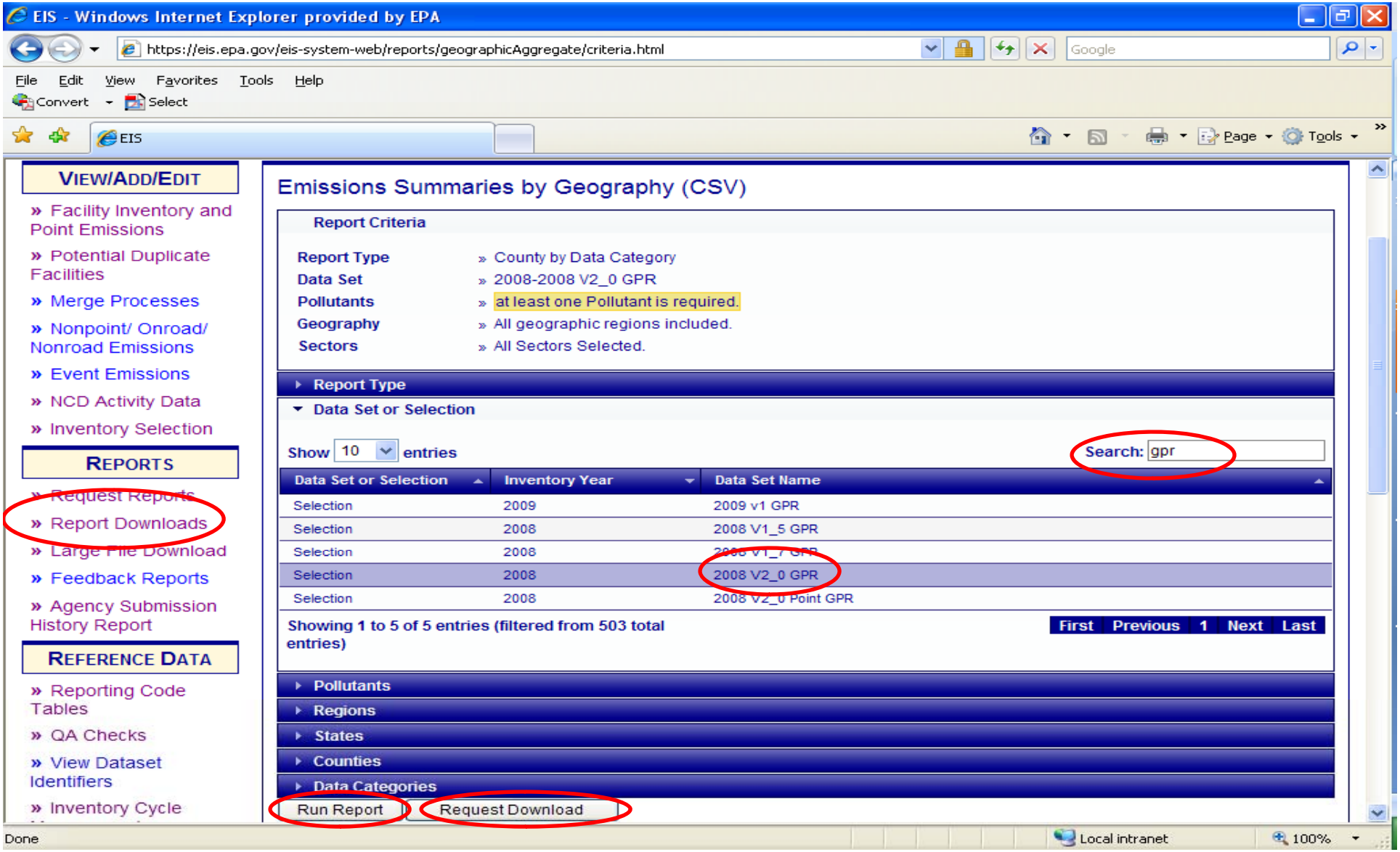
US EPA ARCHIVE DOCUMENT

Emission Summary by Geography
County by Data Category



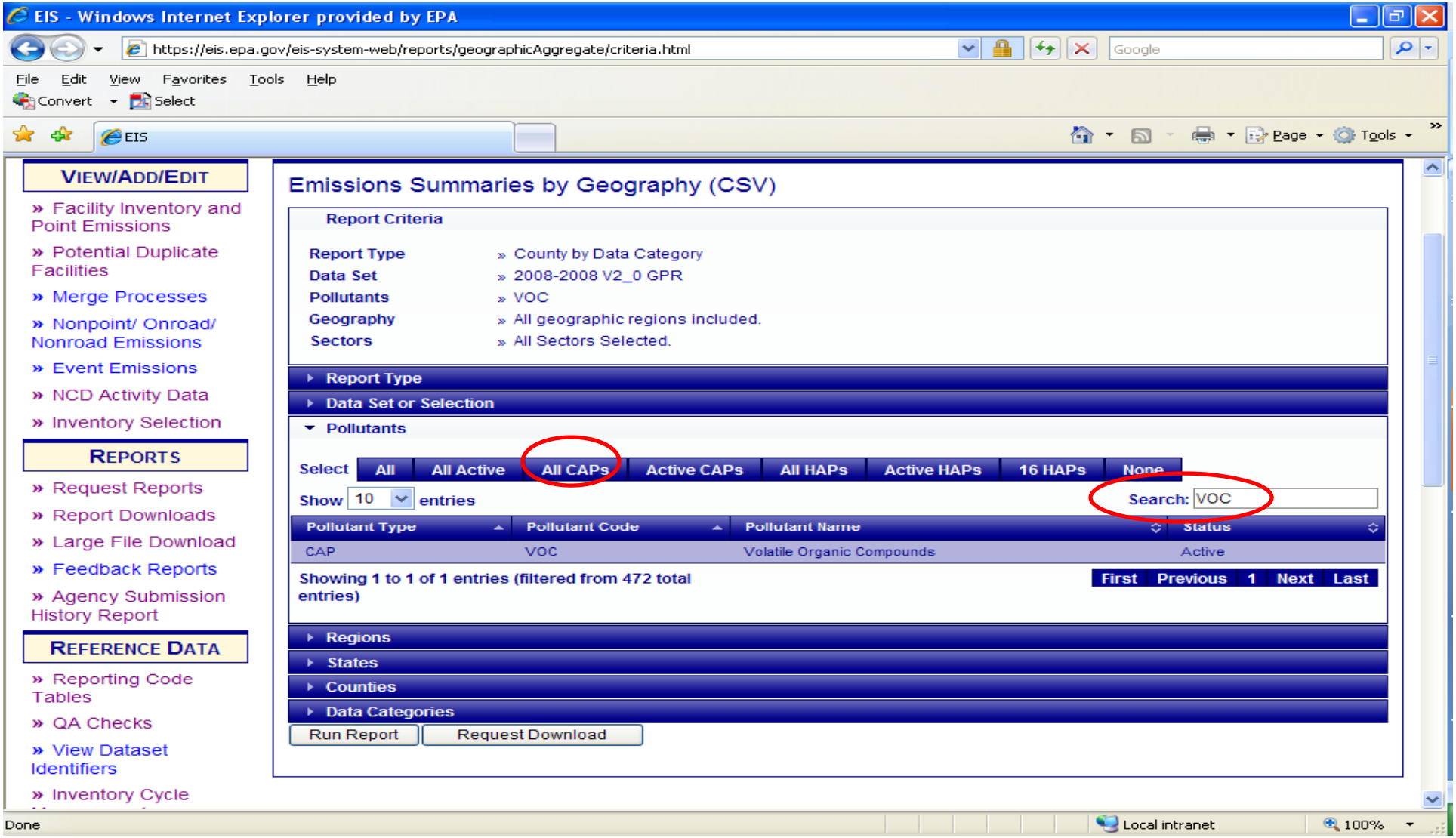
US EPA ARCHIVE DOCUMENT

Emissions Summary by Geography County by Data Category



US EPA ARCHIVE DOCUMENT

Emissions Summary by Geography County by Data Category



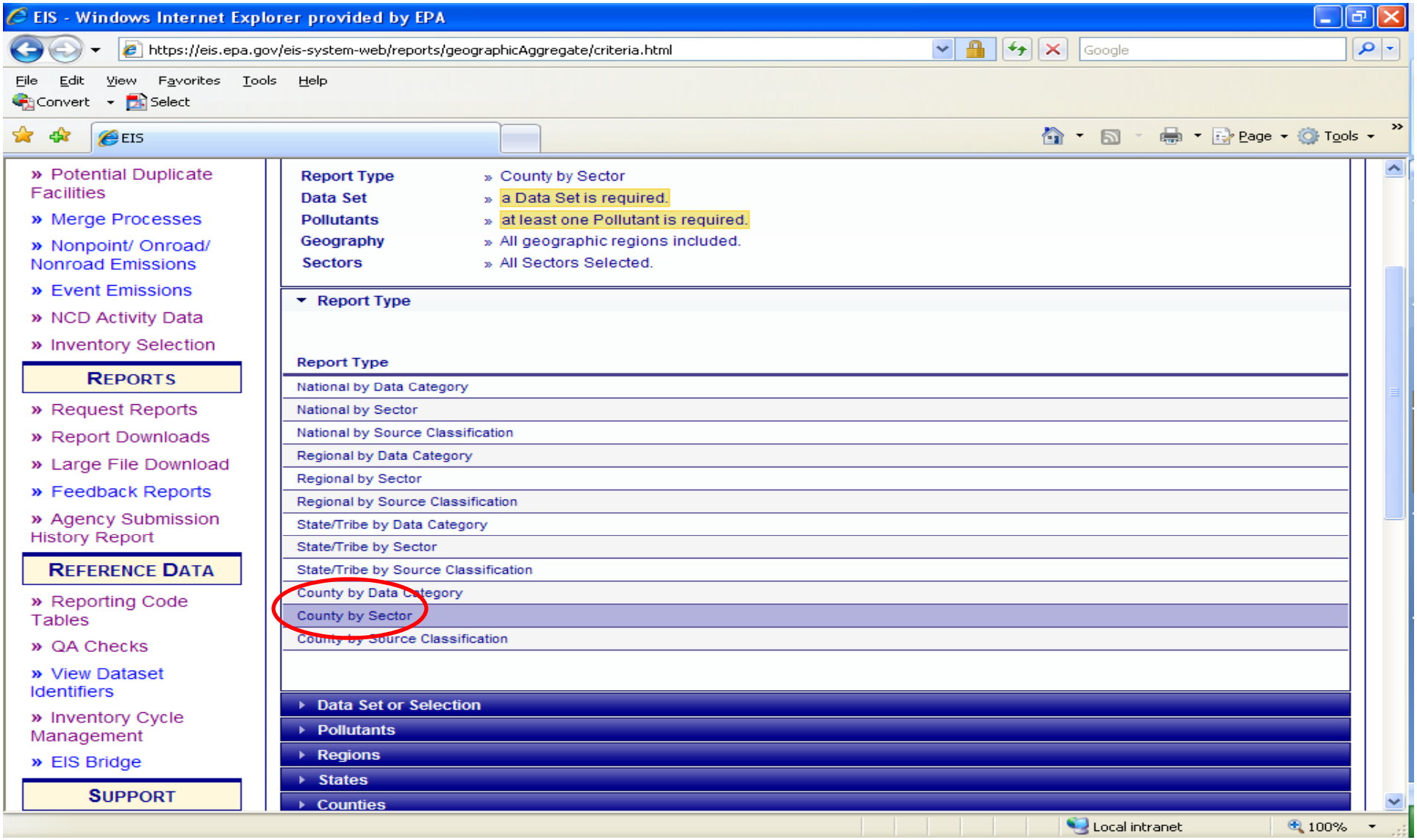
US EPA ARCHIVE DOCUMENT

Emission Summary by Geography
County/Tribe by Data Category – Data Fields

- FIPS
- State
- Tribal Code
- Tribal Name
- County
- **Data Category**
- Emission Operating Type
- Pollutant Code
- Pollutant Description
- Total Emissions
- UOM

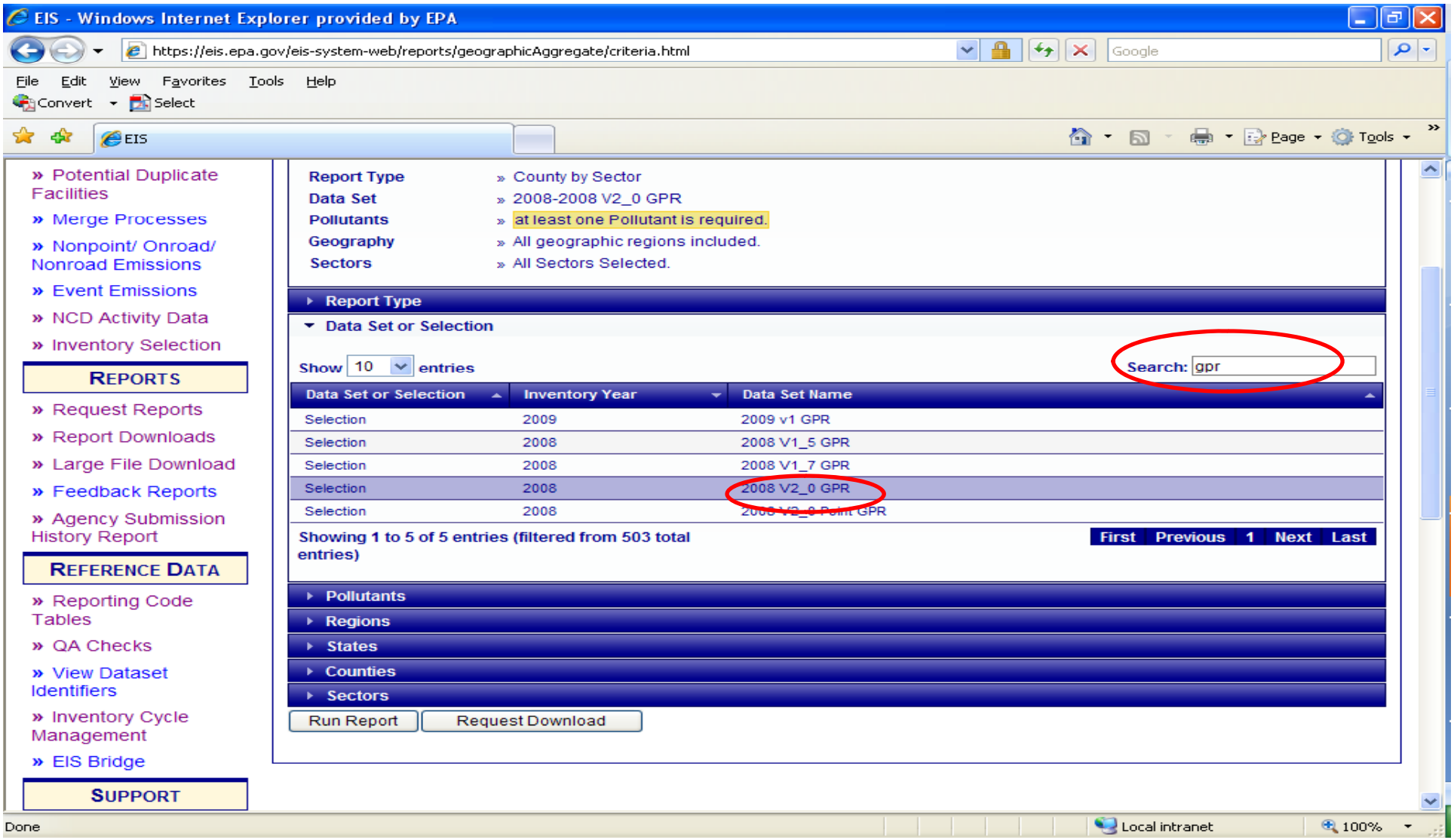
US EPA ARCHIVE DOCUMENT

Emissions Summary by Geography
County by Sector



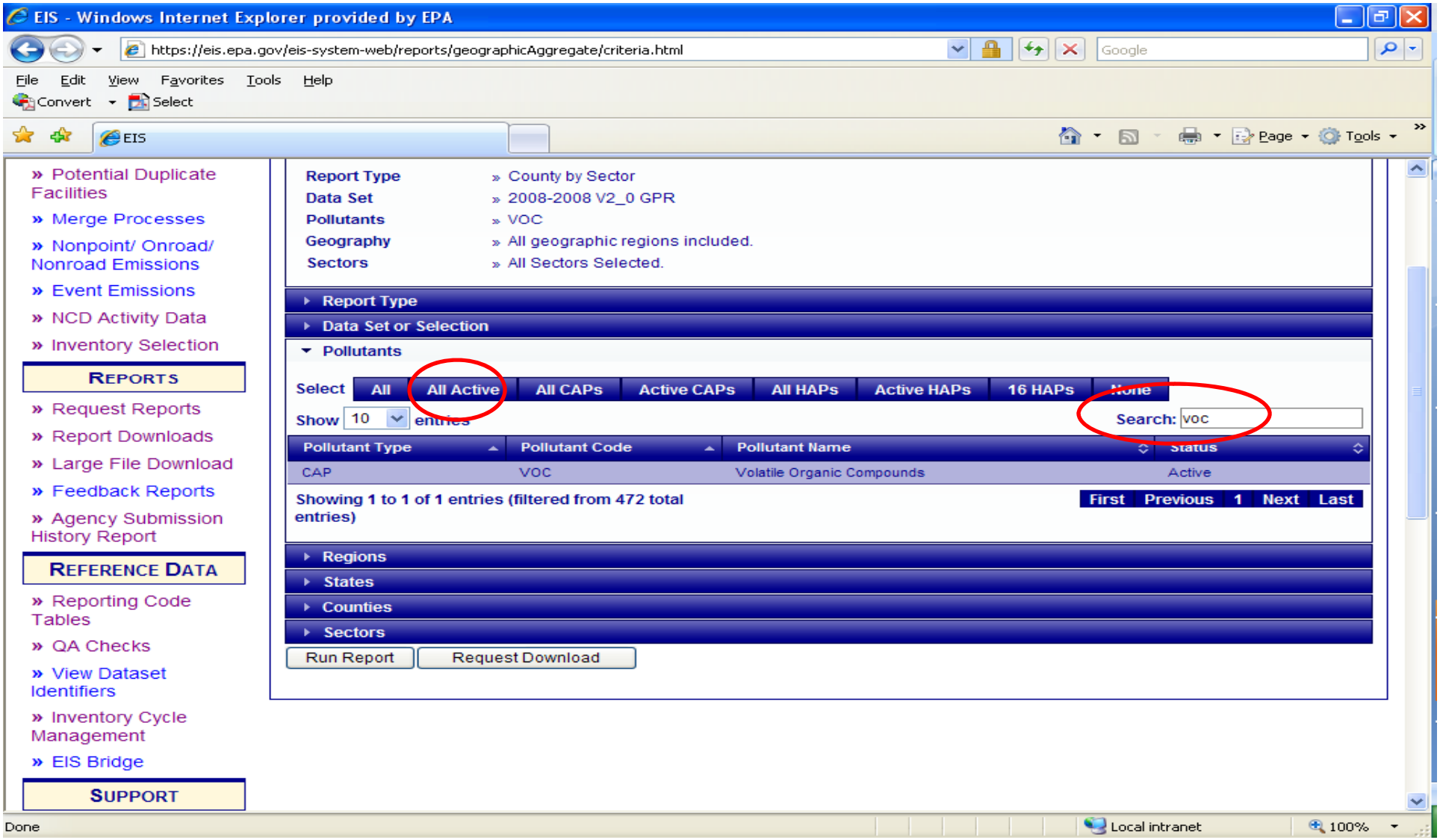
US EPA ARCHIVE DOCUMENT

Emission Summary by Geography County by Sector



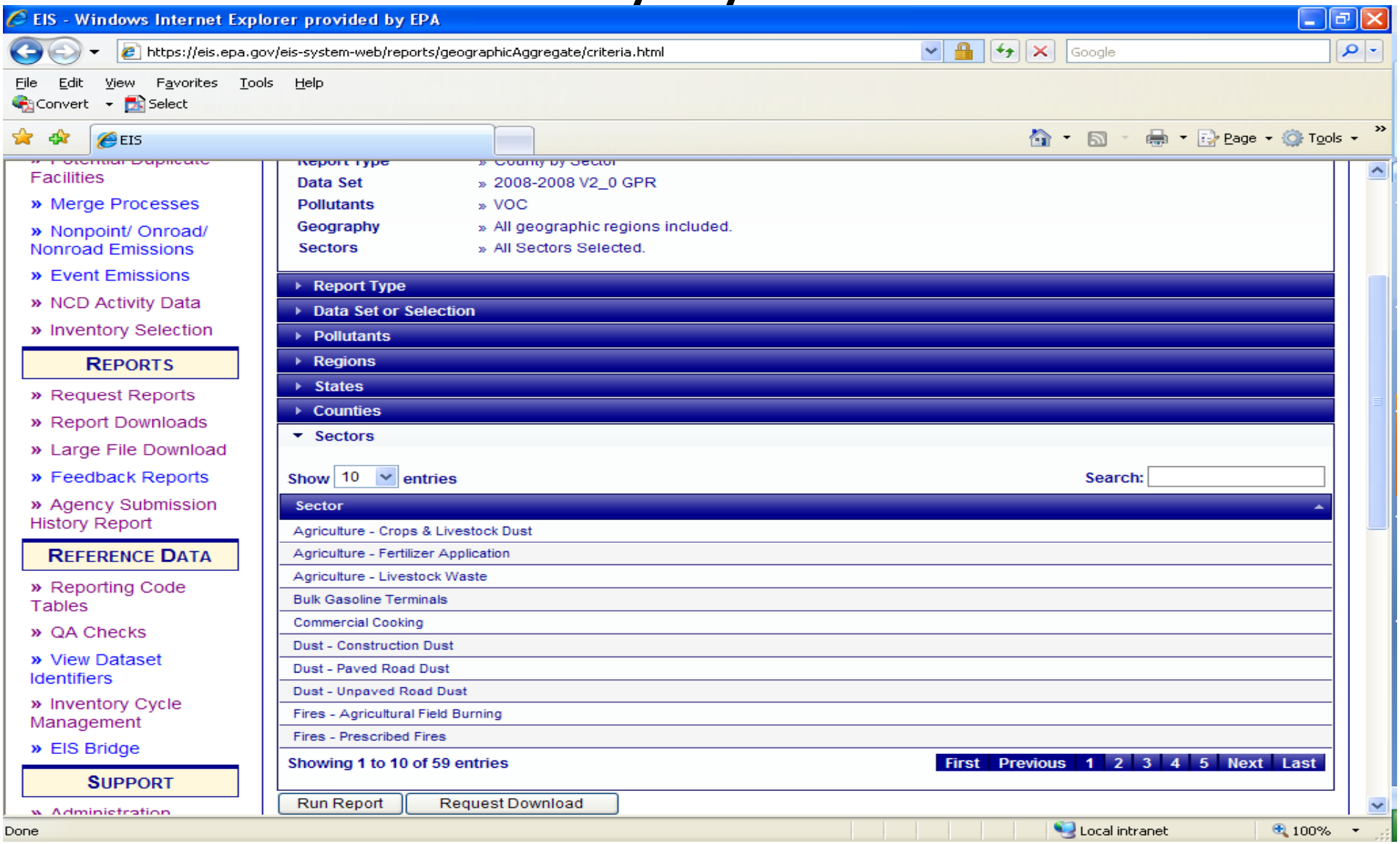
US EPA ARCHIVE DOCUMENT

Emissions Summary by Geography County by Sector



US EPA ARCHIVE DOCUMENT

Emissions Summary by Geography County by Sector



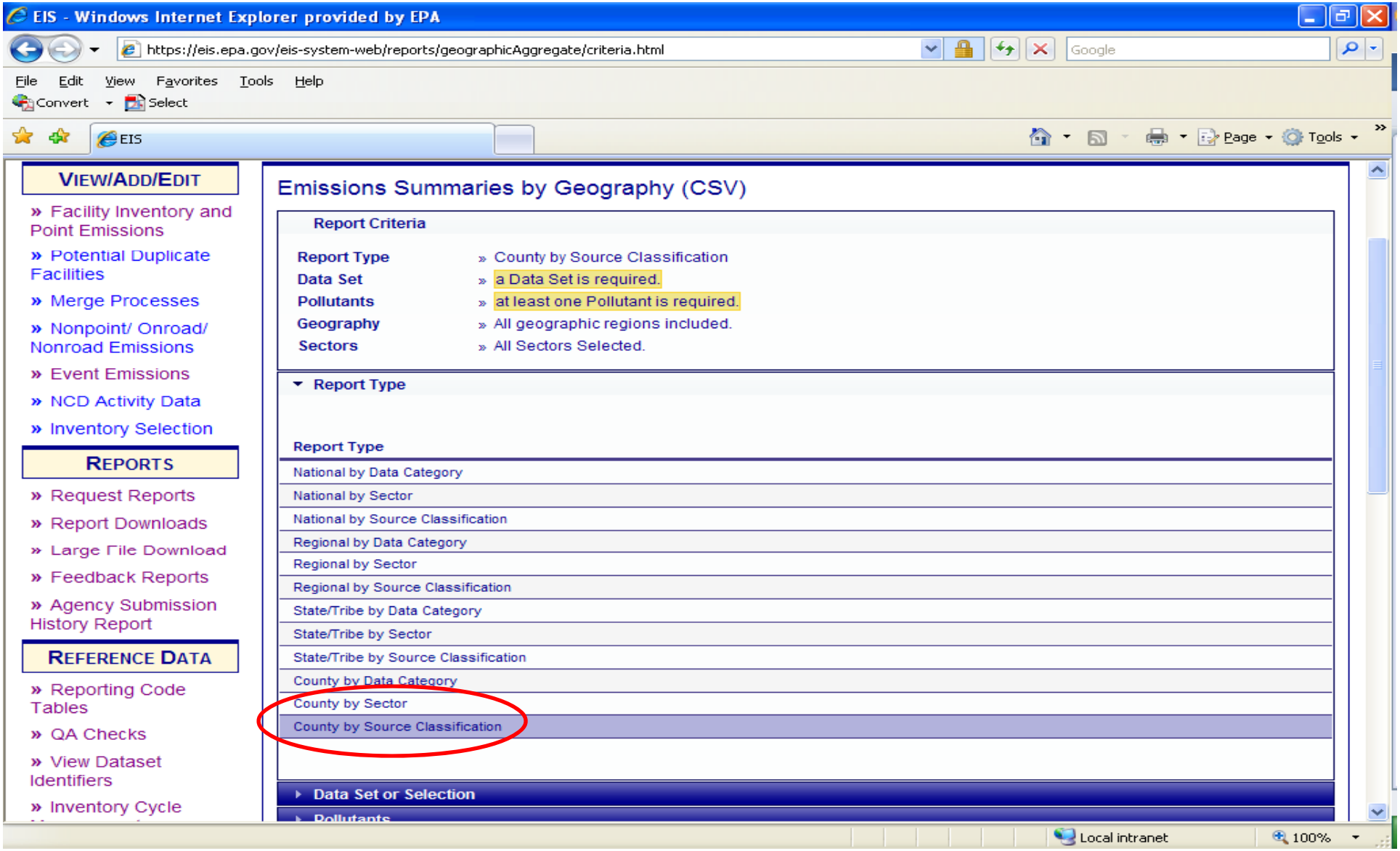
US EPA ARCHIVE DOCUMENT

Emission Summary by Geography
County/Tribe by Sector – Data Fields

- FIPS
- State
- County
- Tribal Code
- Tribal Name
- **Sector**
- Emission Operating Type
- Pollutant Code
- Pollutant Description
- Total Emissions
- UOM

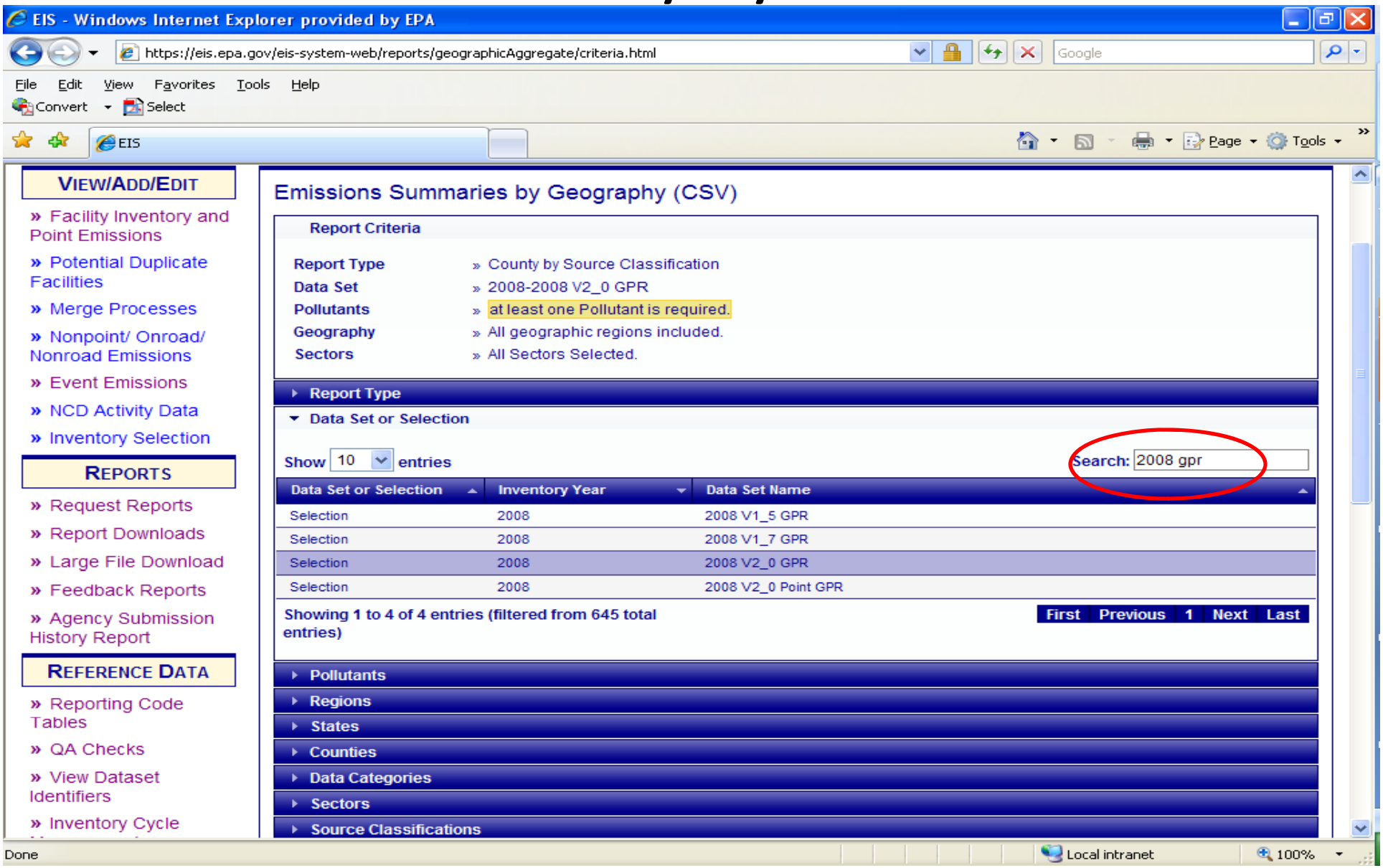
US EPA ARCHIVE DOCUMENT

Emissions Summary by Geography County by SCC



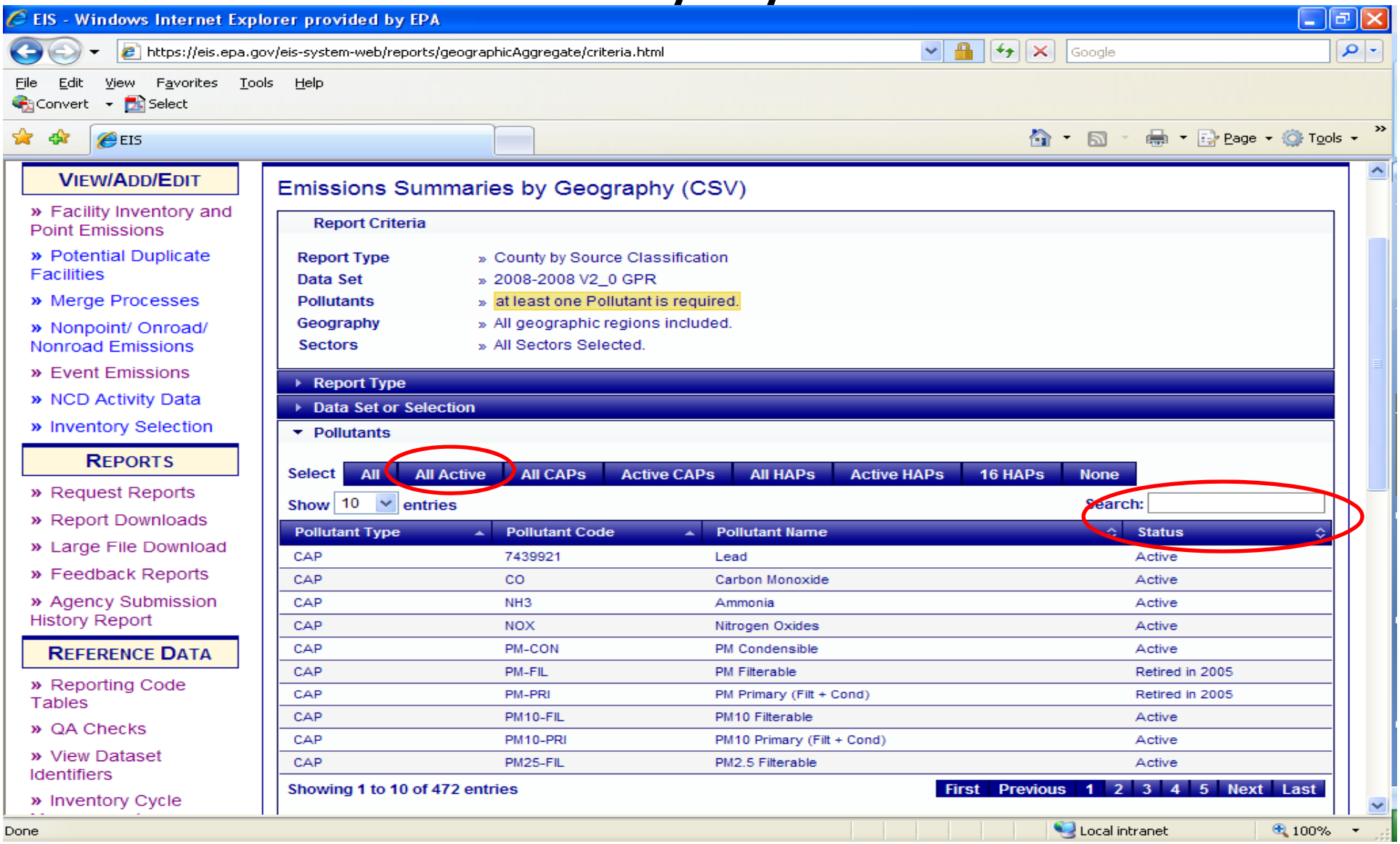
US EPA ARCHIVE DOCUMENT

Emissions Summary by Geography County by SCC



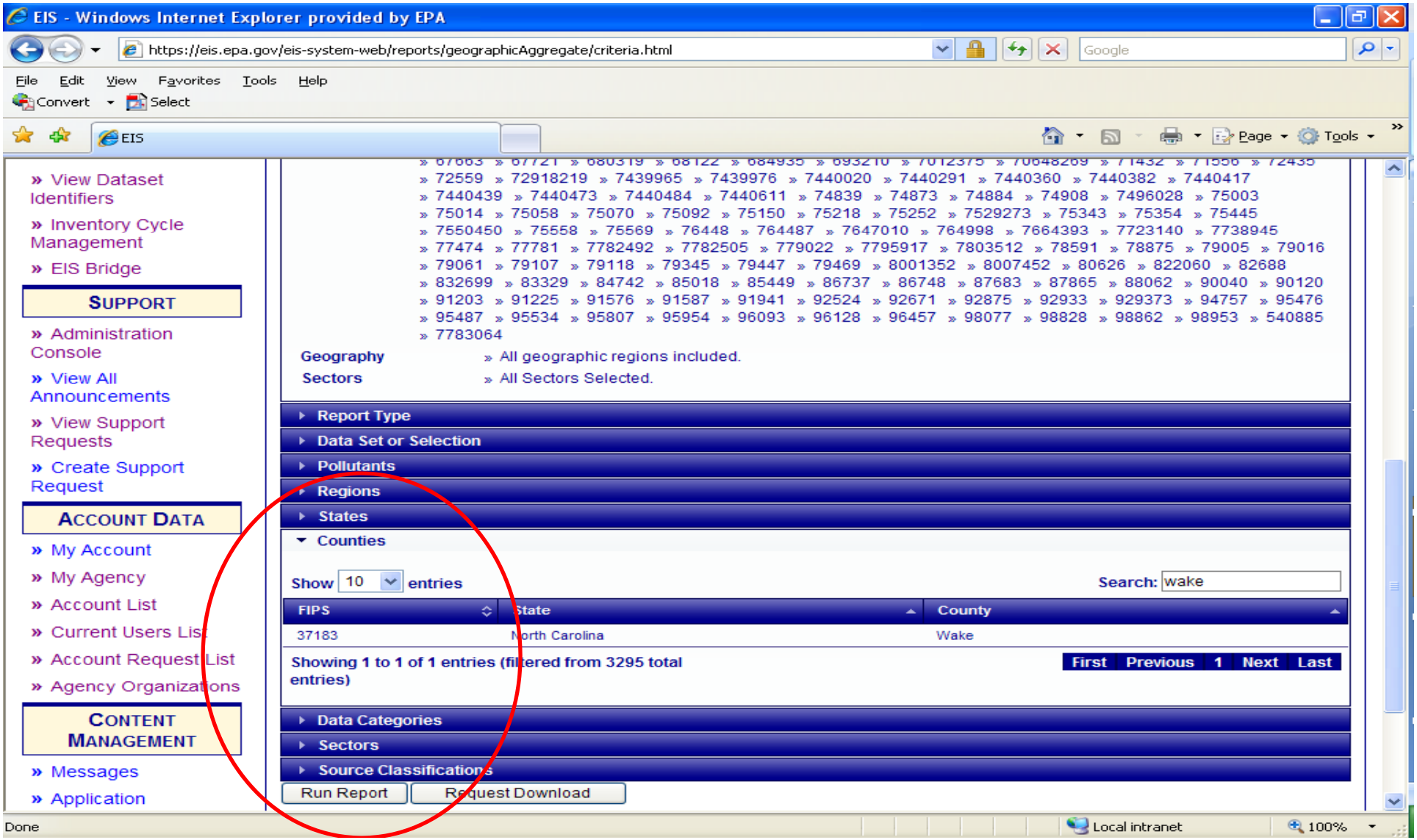
US EPA ARCHIVE DOCUMENT

Emissions Summary by Geography County by SCC



US EPA ARCHIVE DOCUMENT

Emissions Summary by Geography County by SCC



US EPA ARCHIVE DOCUMENT

Emission Summary by Geography County/Tribe by SCC – Data Fields

- FIPS
- State
- County
- Tribal Code
- Tribal Name
- Data Category
- **SCC**
- SCC Level 1
- SCC Level 2
- SCC Level 3
- SCC Level 4
- Emission Type Code
- Aircraft Engine Type Code
- Aircraft Engine Type Description
- Emissions Operating Type
- Pollutant Code
- Pollutant Description
- Total Emissions
- UOM
- Data set

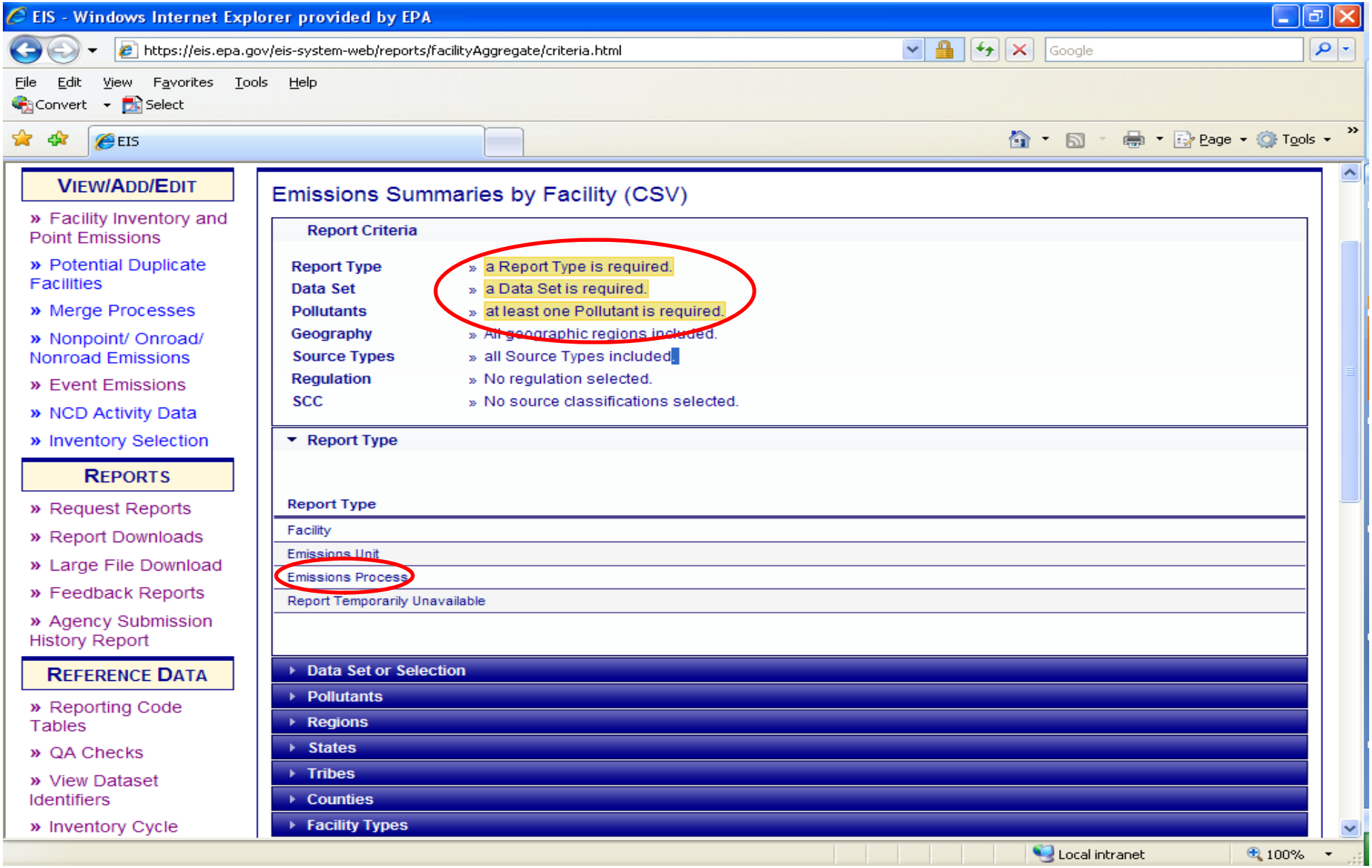
US EPA ARCHIVE DOCUMENT

How can I use the Emission Summary by Facility/Geography Report?

- Check EIS against your database
- Check process level emissions for a particular SCC
- Check unit level emissions against unit type.
- Where is a particular emission coming from
- Are most emissions stack or fugitive releases
- For the NEI, what EPA processes/pollutants were used and what are they

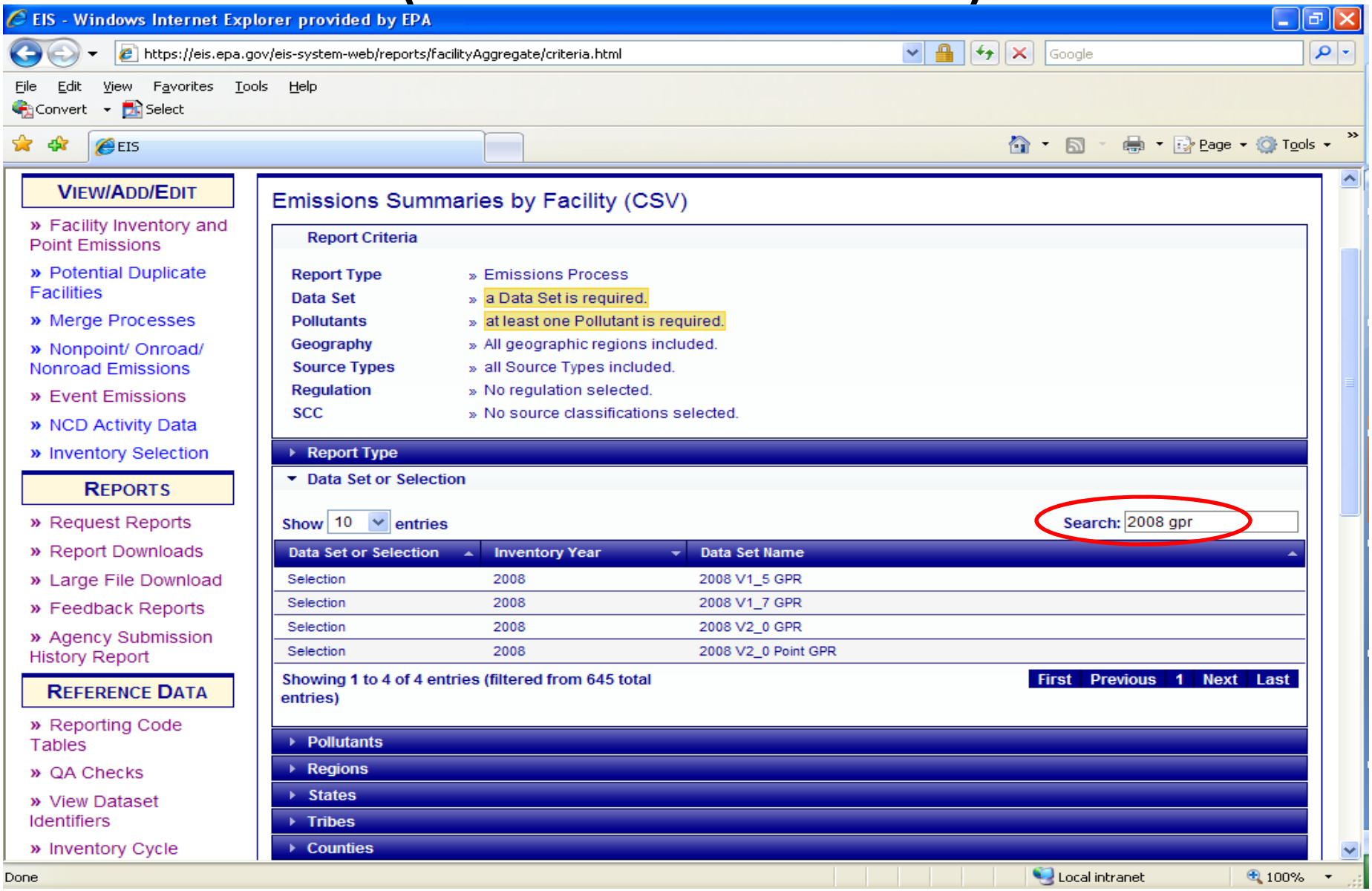
US EPA ARCHIVE DOCUMENT

Emissions Summary by Facility



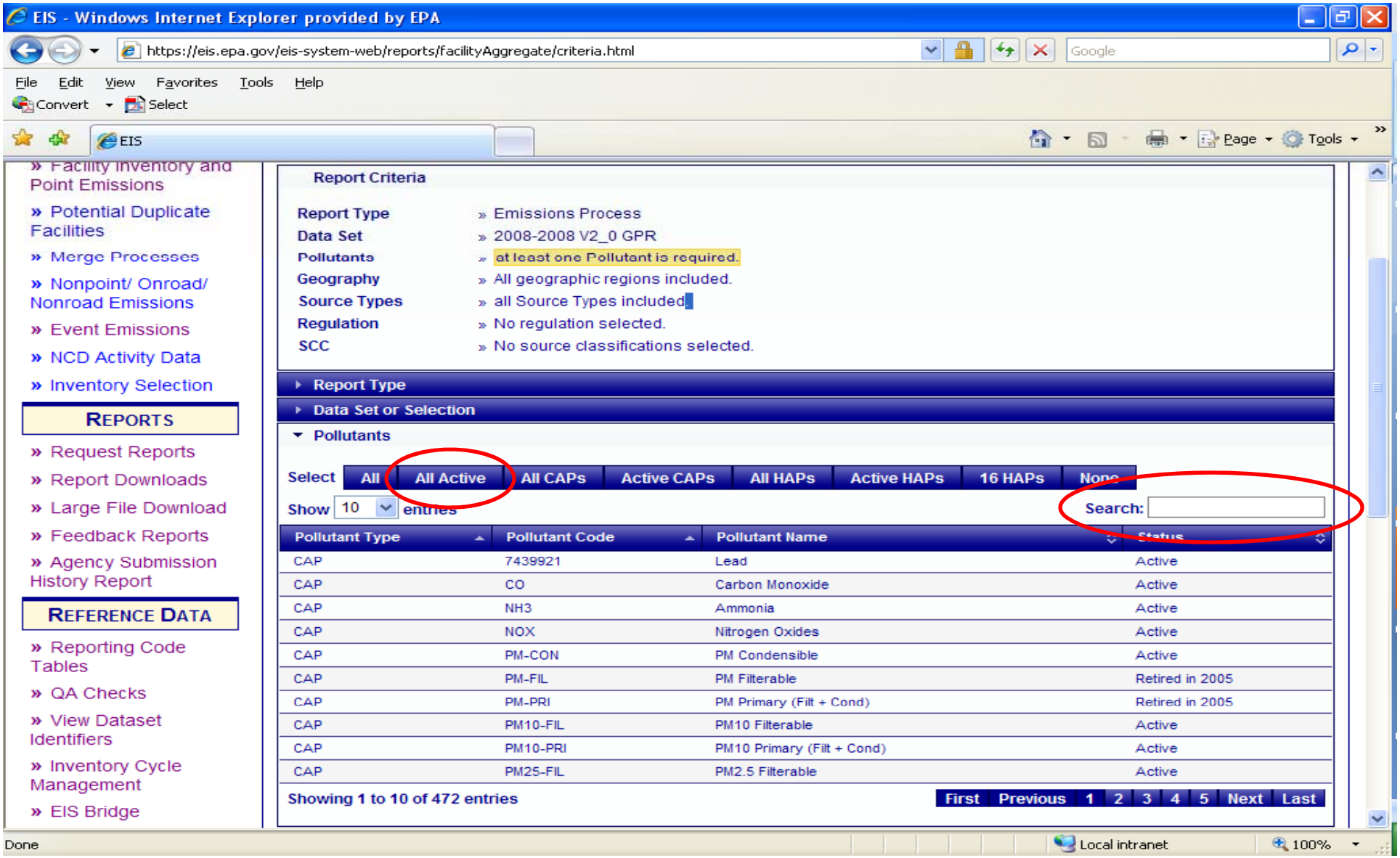
US EPA ARCHIVE DOCUMENT

Emissions Summary by Facility (Emission Process)



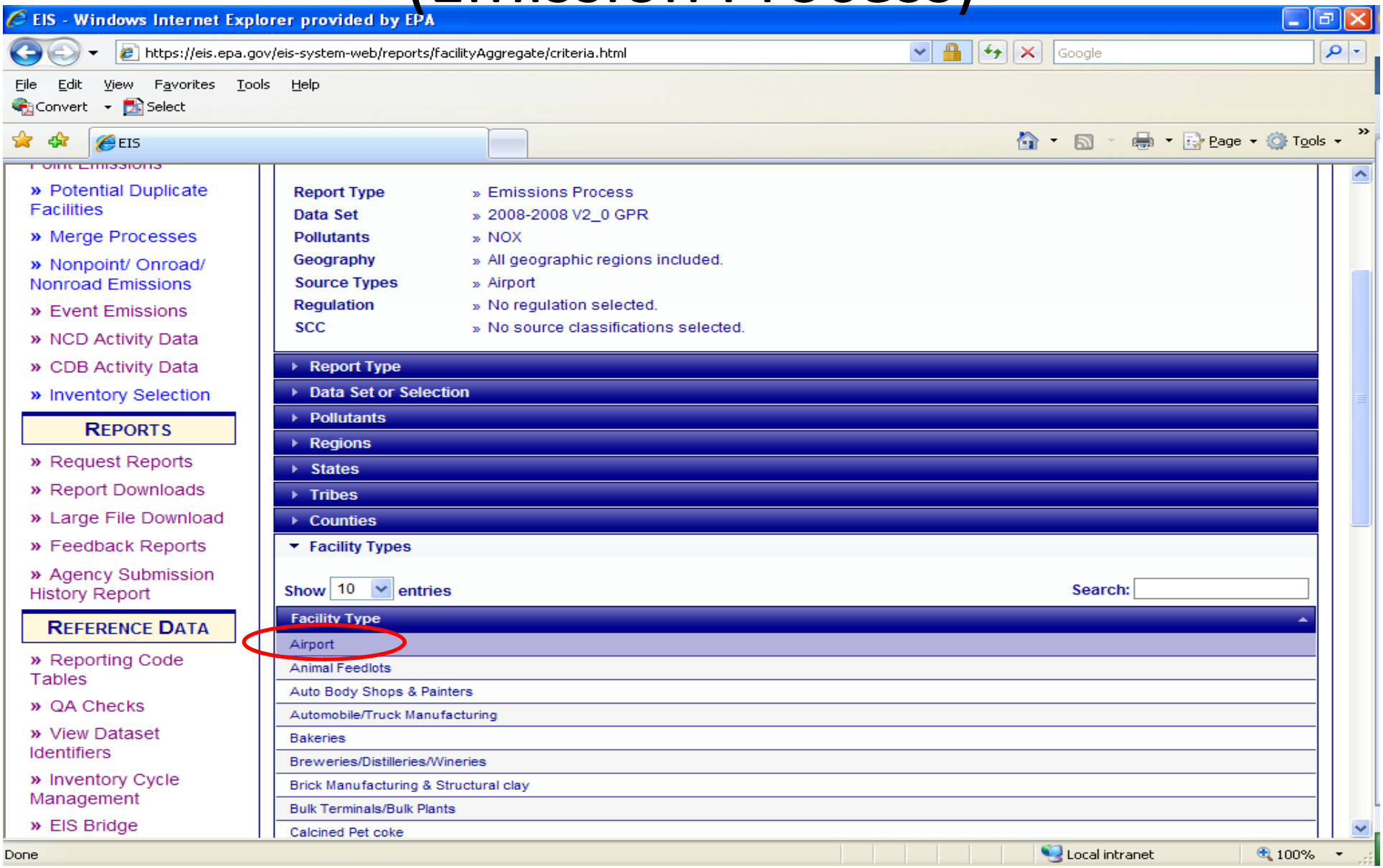
US EPA ARCHIVE DOCUMENT

Emissions Summary by Facility (Emission Process)



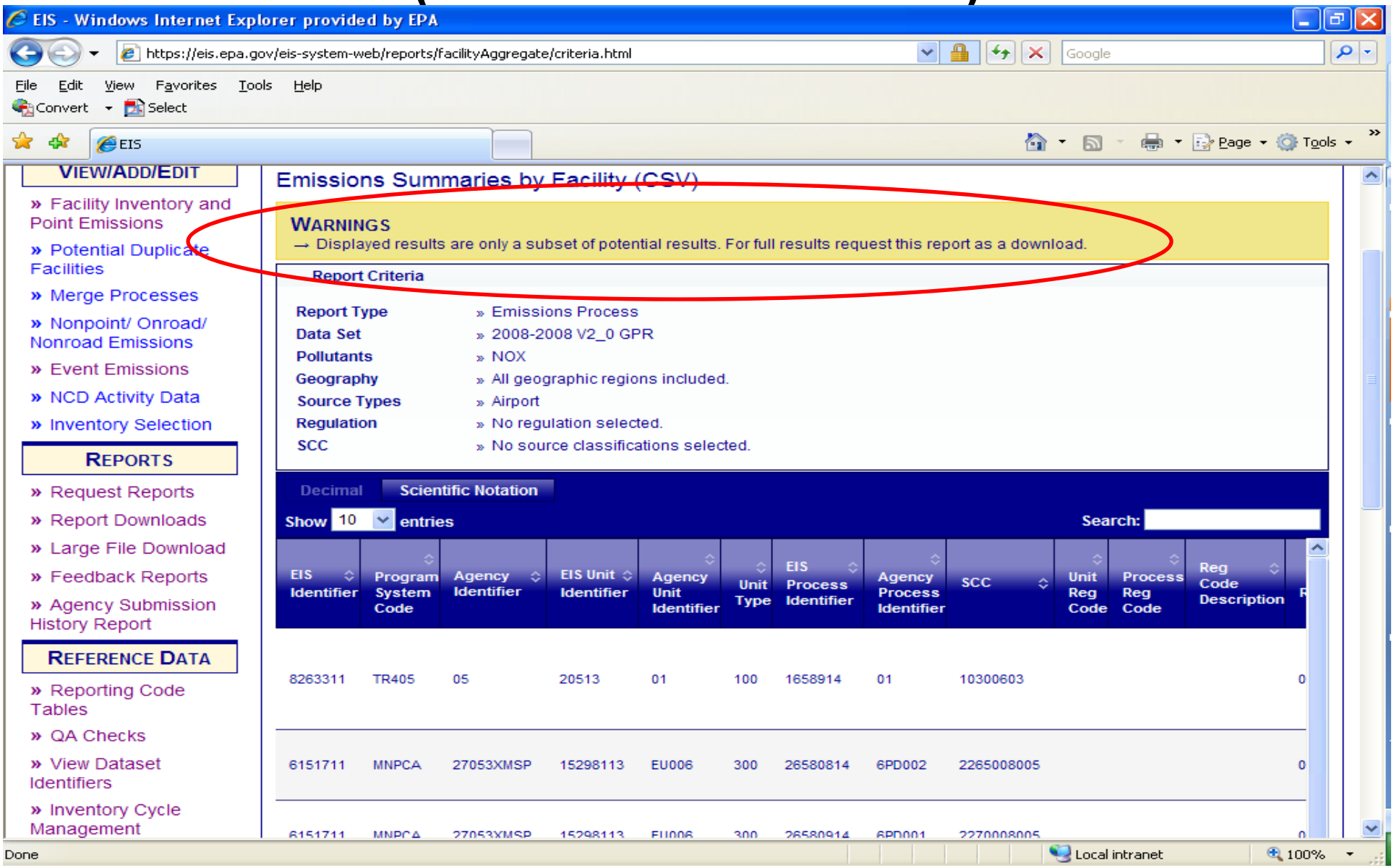
US EPA ARCHIVE DOCUMENT

Emissions Summary by Facility (Emission Process)



US EPA ARCHIVE DOCUMENT

Emissions Summary by Facility (Emission Process)



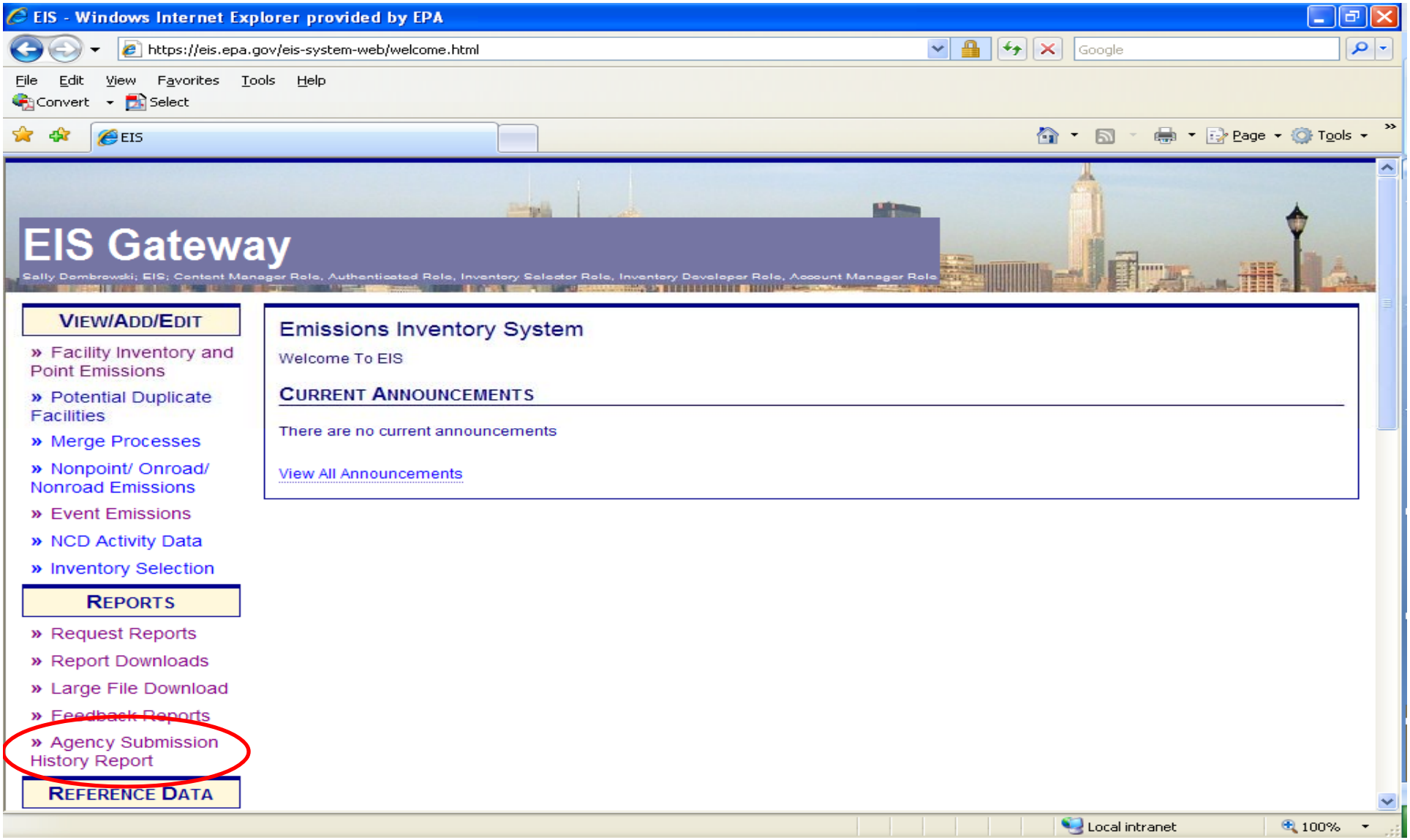
US EPA ARCHIVE DOCUMENT

Emissions Summary by Facility for Emission Processes

- EIS Identifier
- Program System Code
- Agency Identifier
- EIS Unit Identifier
- Agency Unit Identifier
- Unit Type
- Unit Description
- EIS Process Identifier
- Agency Process Identifier
- SCC
- SCC Level 1
- SCC Level 2
- SCC Level 3
- SCC Level 4
- Unit Regulation Code
- Process Regulation Code
- Regulation Code Description
- Region
- State
- County
- State and County FIPS
- Tribal Code
- Tribal Name
- Site Name
- NAICS Code
- NAICS Description
- Facility Type
- Emissions Unit Operating Status
- Unit Operating Status Year
- Latitude
- Longitude
- Address
- City
- State
- Zip Code
- Emissions Operating Type
- Pollutant
- Pollutant Description
- Total Emissions
- UOM
- Data Set

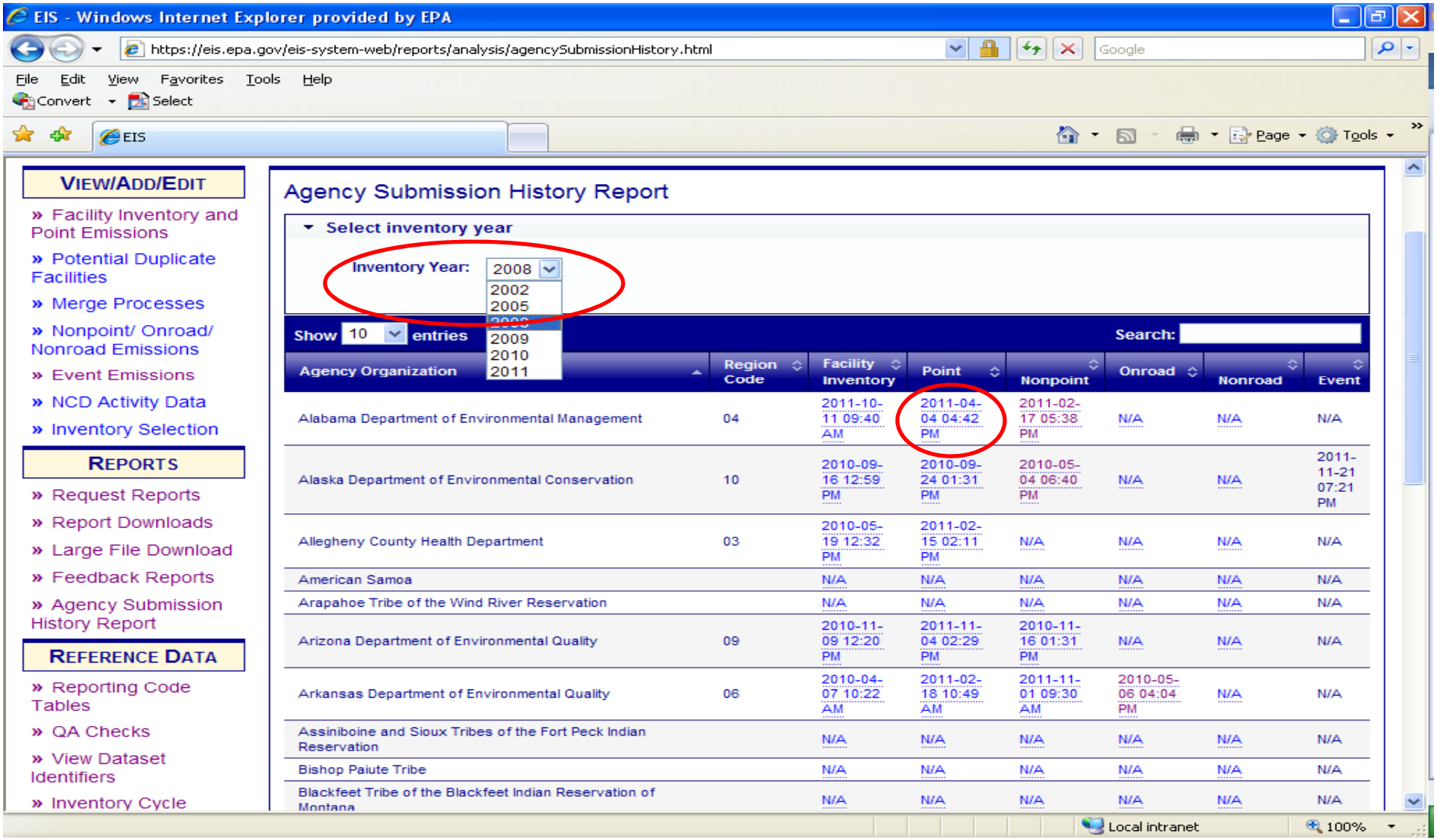
US EPA ARCHIVE DOCUMENT

Agency Submission History Report



US EPA ARCHIVE DOCUMENT

Agency Submission History Report

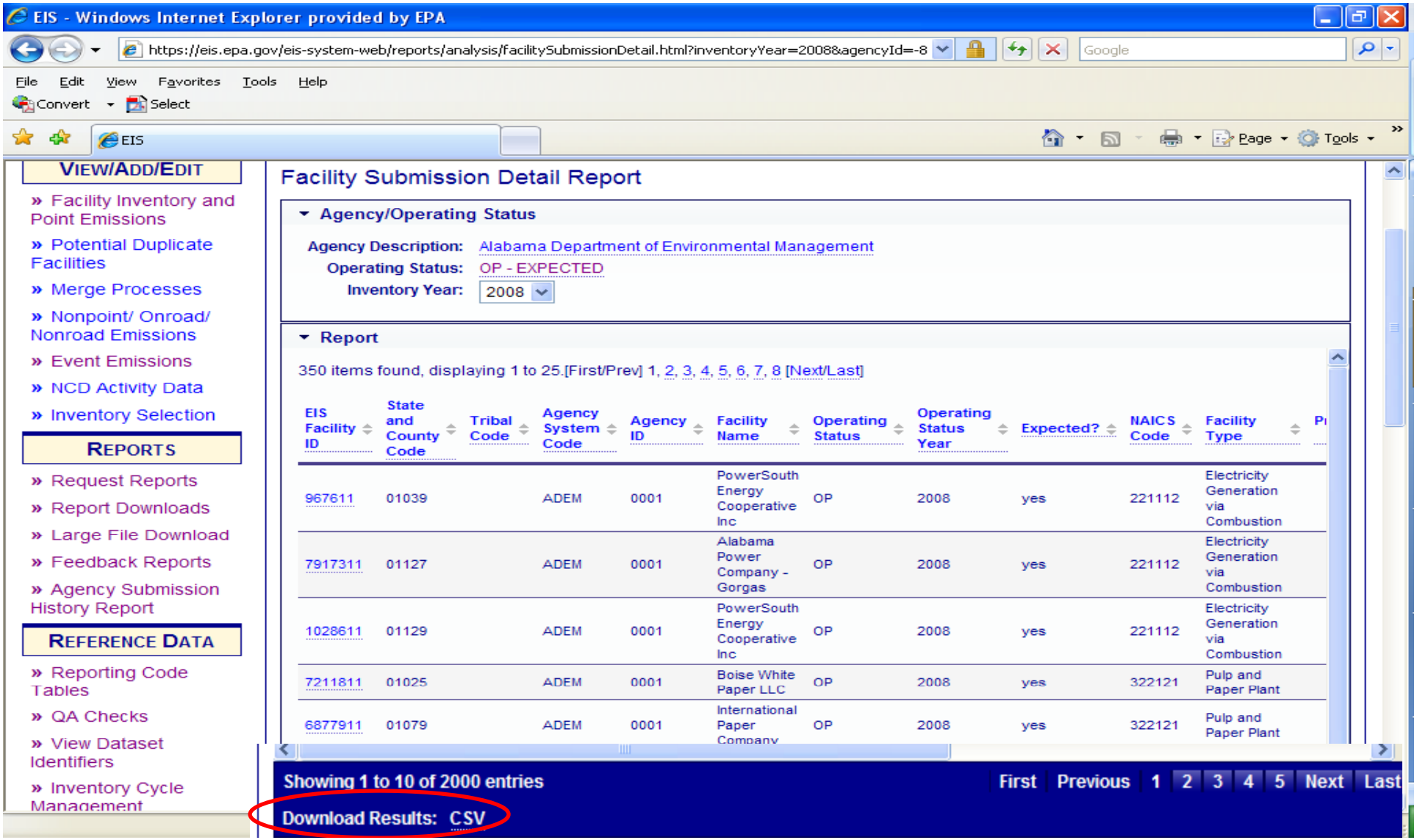


US EPA ARCHIVE DOCUMENT

Agency Submission History Report

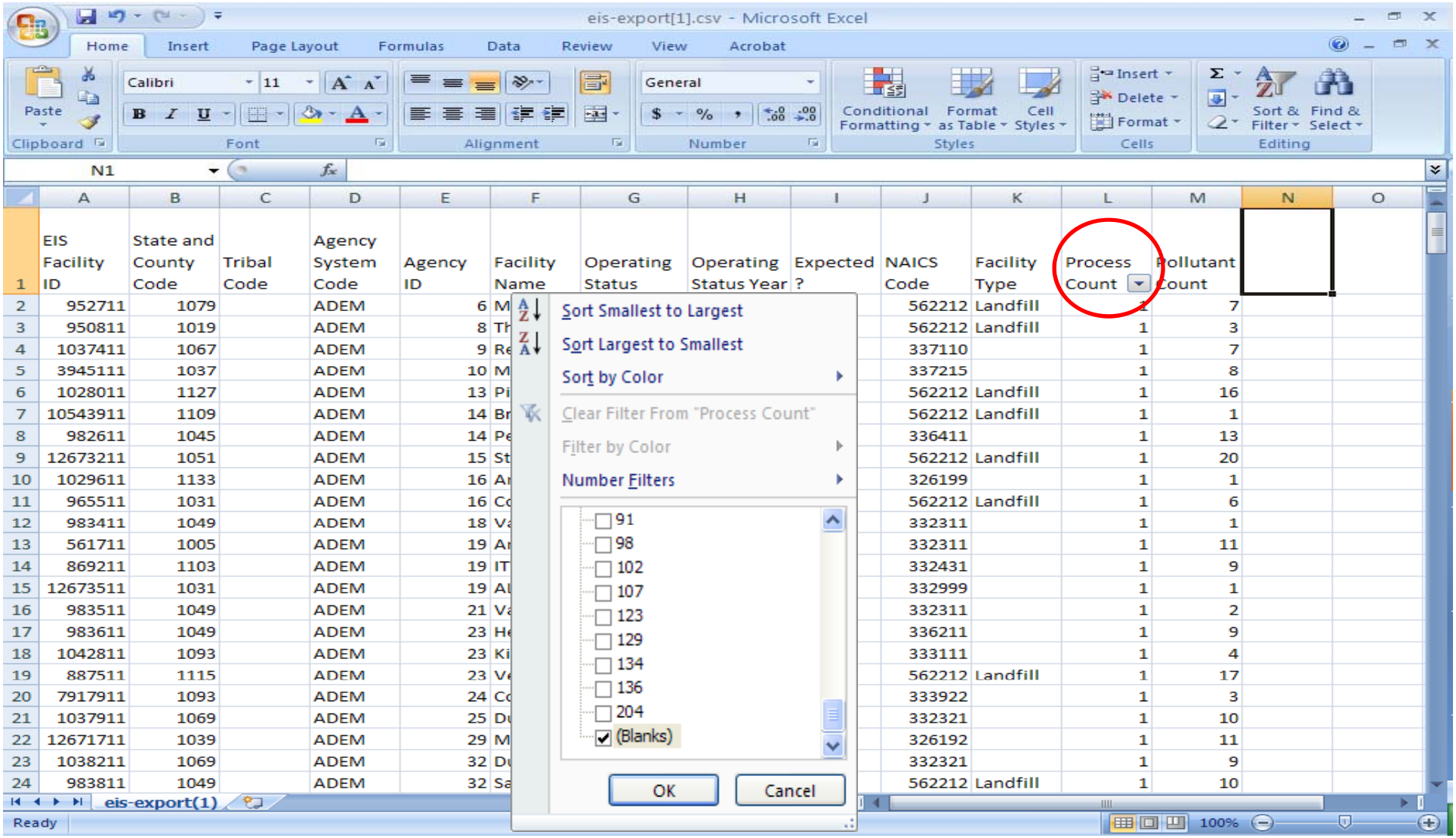
US EPA ARCHIVE DOCUMENT

Agency Submission History Report



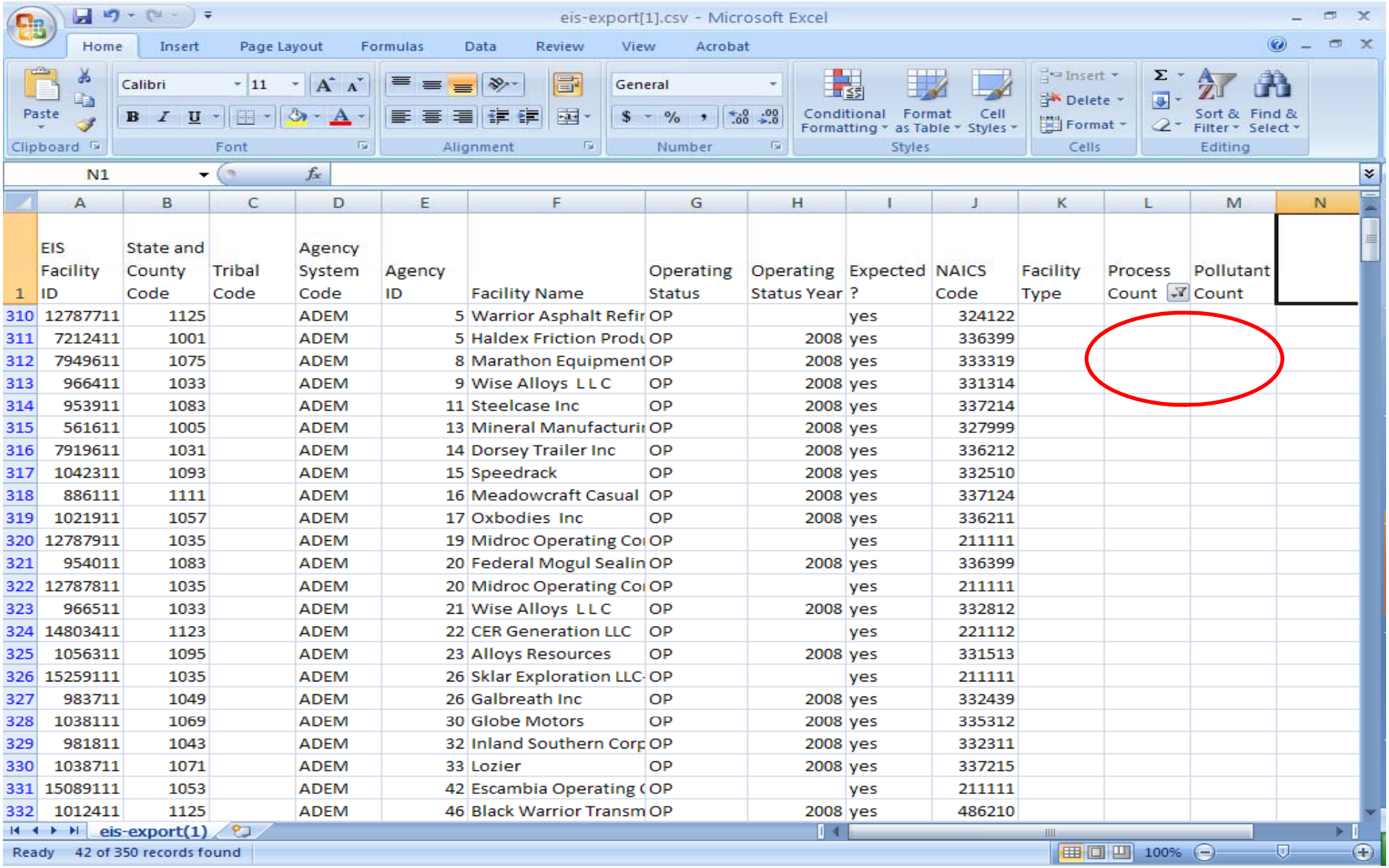
US EPA ARCHIVE DOCUMENT

Agency Submission History Report



US EPA ARCHIVE DOCUMENT

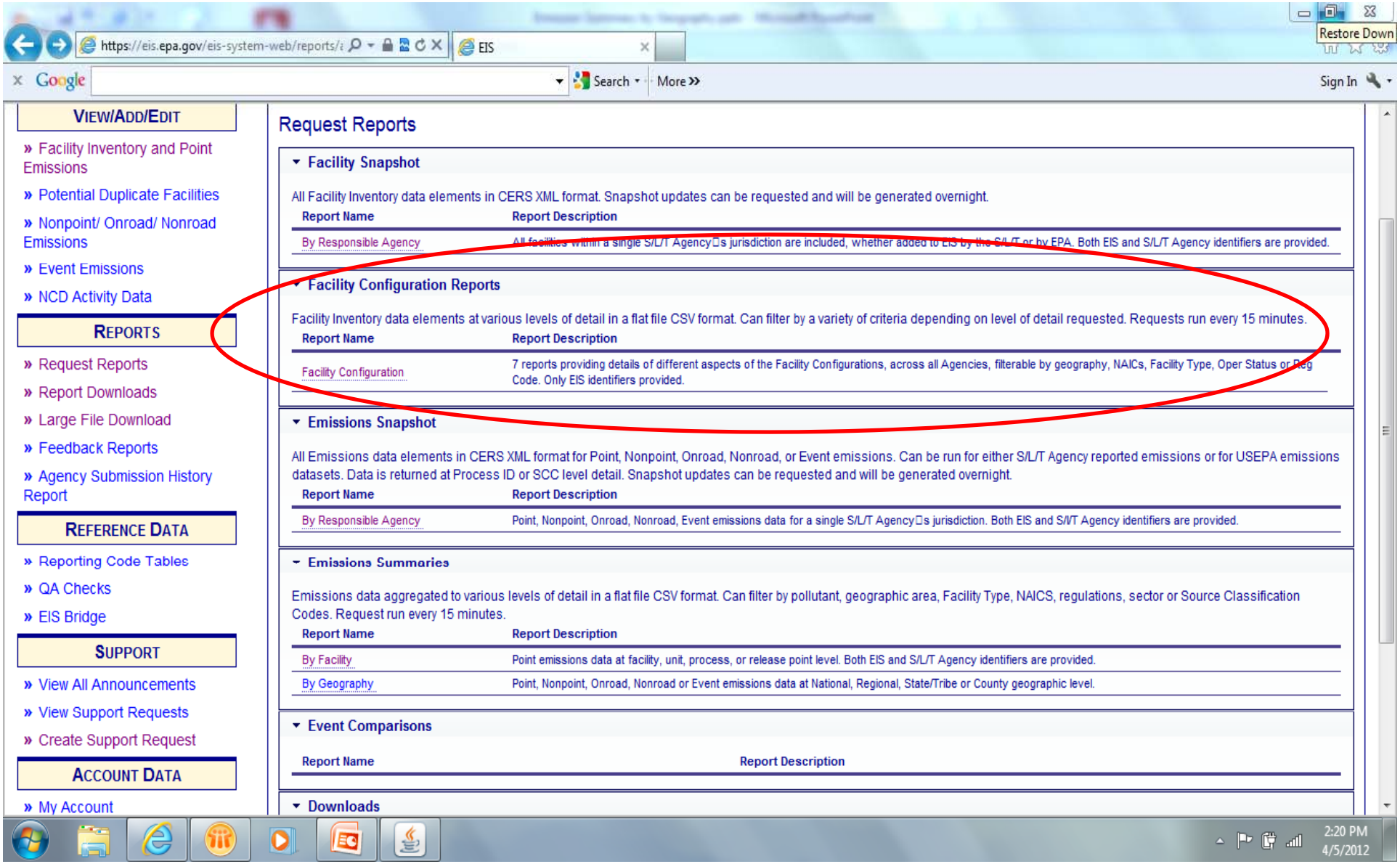
Agency Submission History Report



1	A EIS Facility ID	B State and County Code	C Tribal Code	D Agency System Code	E Agency ID	F Facility Name	G Operating Status	H Operating Status Year	I Expected ?	J NAICS Code	K Facility Type	L Process Count	M Pollutant Count	N
310	12787711	1125		ADEM	5	Warrior Asphalt Refir	OP		yes	324122				
311	7212411	1001		ADEM	5	Haldex Friction Produ	OP	2008	yes	336399				
312	7949611	1075		ADEM	8	Marathon Equipment	OP	2008	yes	333319				
313	966411	1033		ADEM	9	Wise Alloys L L C	OP	2008	yes	331314				
314	953911	1083		ADEM	11	Steelcase Inc	OP	2008	yes	337214				
315	561611	1005		ADEM	13	Mineral Manufacturir	OP	2008	yes	327999				
316	7919611	1031		ADEM	14	Dorsey Trailer Inc	OP	2008	yes	336212				
317	1042311	1093		ADEM	15	Speedrack	OP	2008	yes	332510				
318	886111	1111		ADEM	16	Meadowcraft Casual	OP	2008	yes	337124				
319	1021911	1057		ADEM	17	Oxbodies Inc	OP	2008	yes	336211				
320	12787911	1035		ADEM	19	Midroc Operating Co	OP		yes	211111				
321	954011	1083		ADEM	20	Federal Mogul Sealin	OP	2008	yes	336399				
322	12787811	1035		ADEM	20	Midroc Operating Co	OP		yes	211111				
323	966511	1033		ADEM	21	Wise Alloys L L C	OP	2008	yes	332812				
324	14803411	1123		ADEM	22	CER Generation LLC	OP		yes	221112				
325	1056311	1095		ADEM	23	Alloys Resources	OP	2008	yes	331513				
326	15259111	1035		ADEM	26	Sklar Exploration LLC	OP		yes	211111				
327	983711	1049		ADEM	26	Galbreath Inc	OP	2008	yes	332439				
328	1038111	1069		ADEM	30	Globe Motors	OP	2008	yes	335312				
329	981811	1043		ADEM	32	Inland Southern Corp	OP	2008	yes	332311				
330	1038711	1071		ADEM	33	Lozier	OP	2008	yes	337215				
331	15089111	1053		ADEM	42	Escambia Operating C	OP		yes	211111				
332	1012411	1125		ADEM	46	Black Warrior Transm	OP	2008	yes	486210				

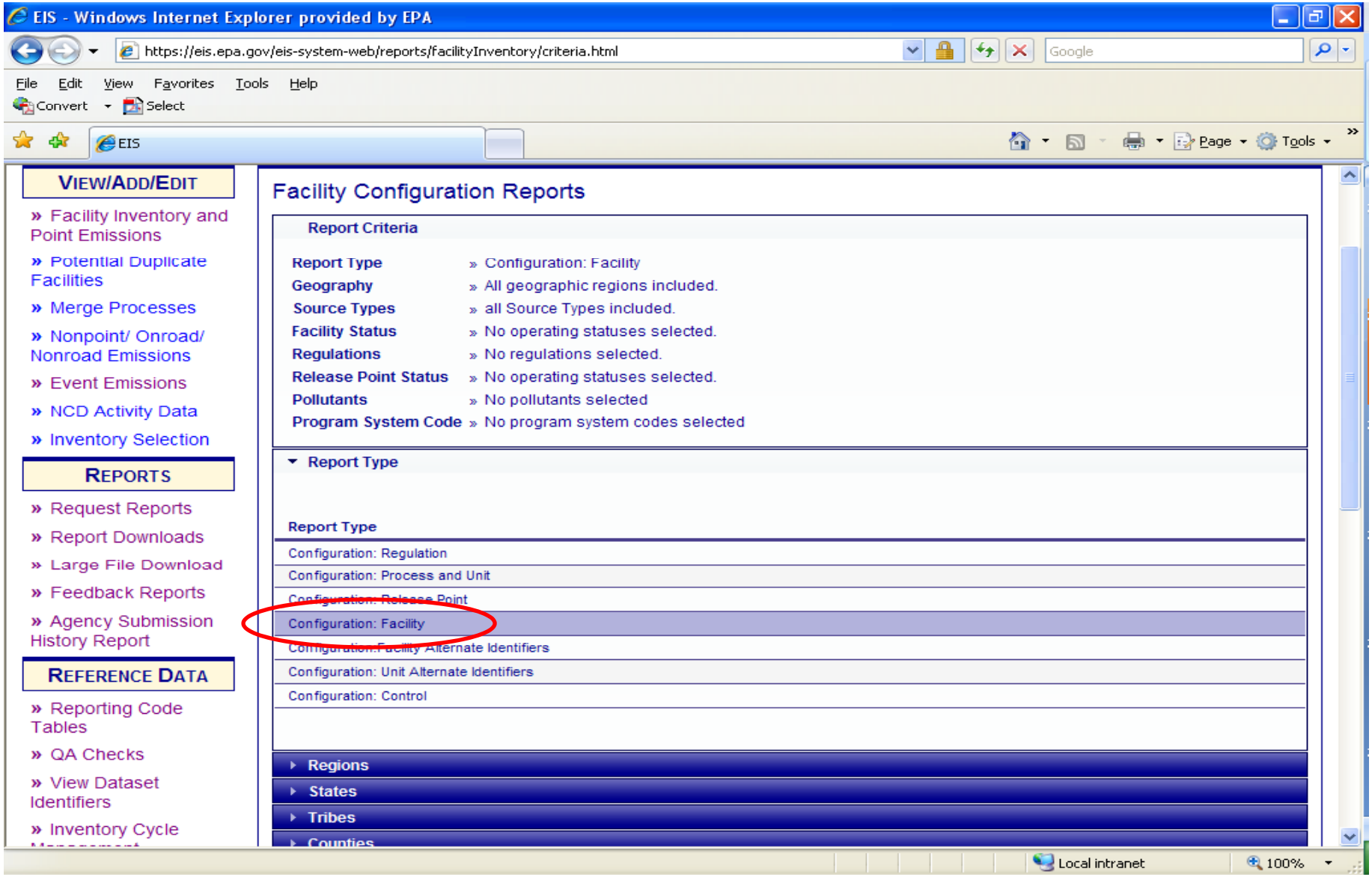
US EPA ARCHIVE DOCUMENT

Facility Configuration Reports



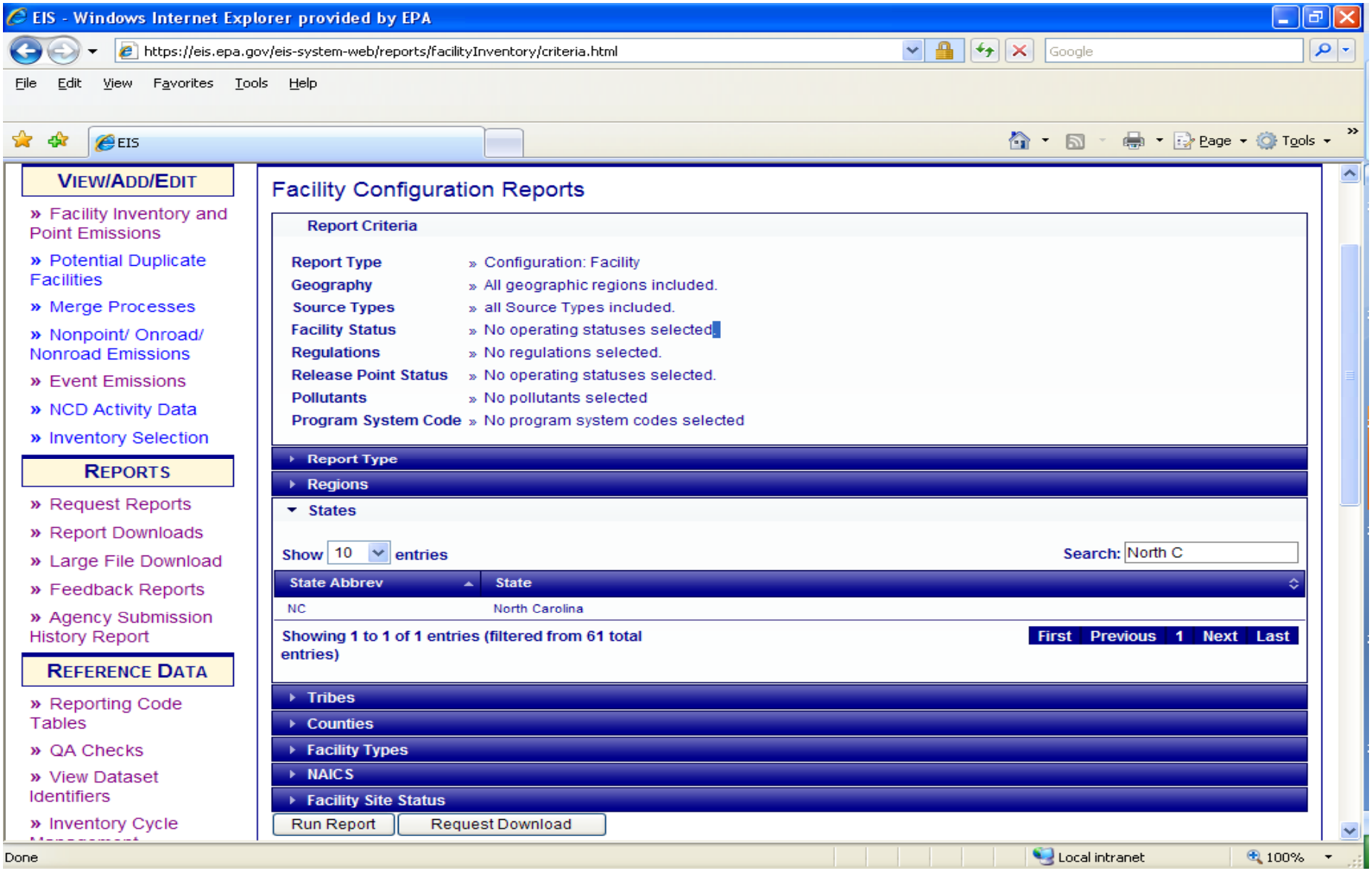
US EPA ARCHIVE DOCUMENT

Configuration - Facility



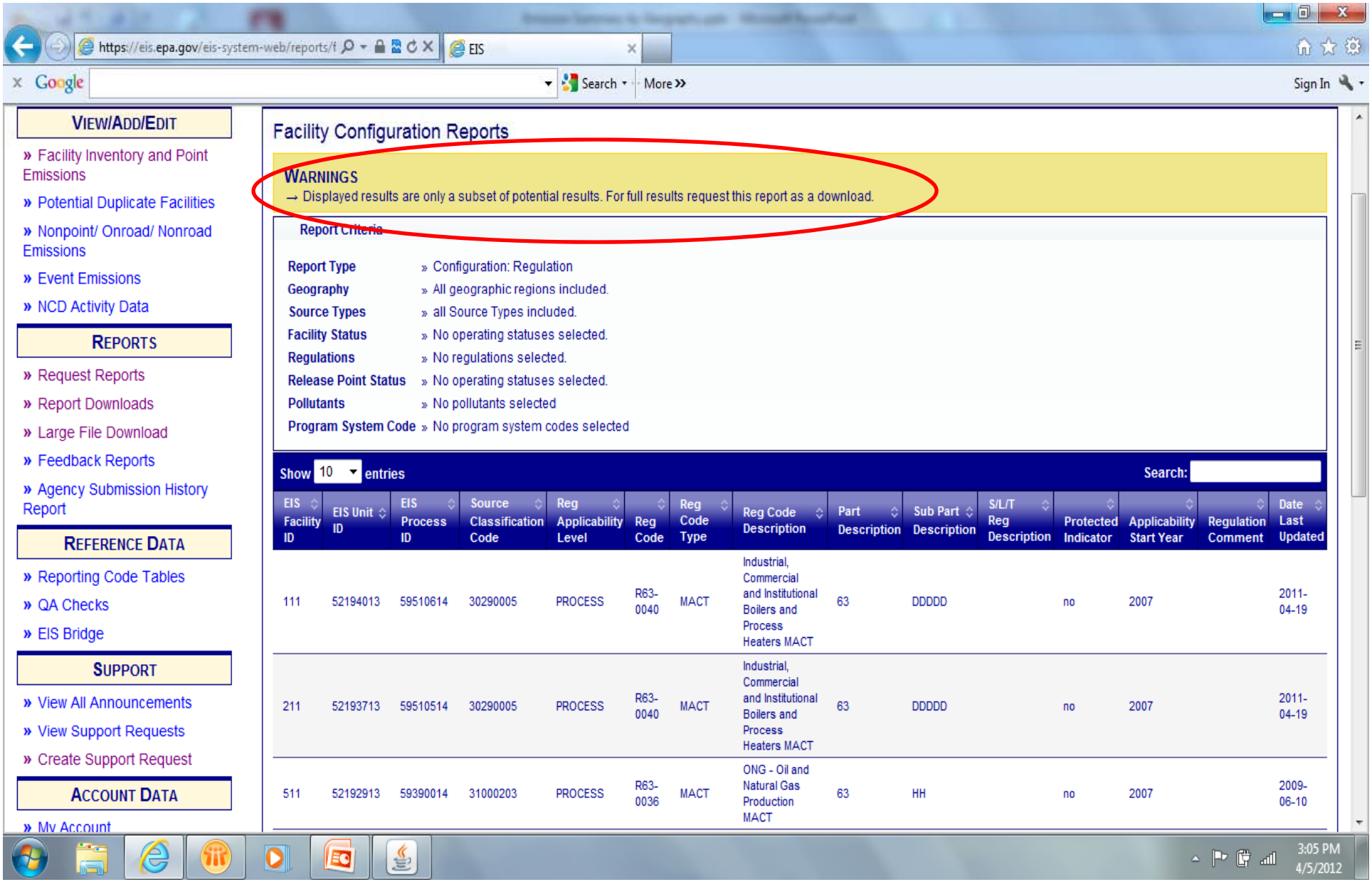
US EPA ARCHIVE DOCUMENT

Configuration - Facility



US EPA ARCHIVE DOCUMENT

Configuration - Facility



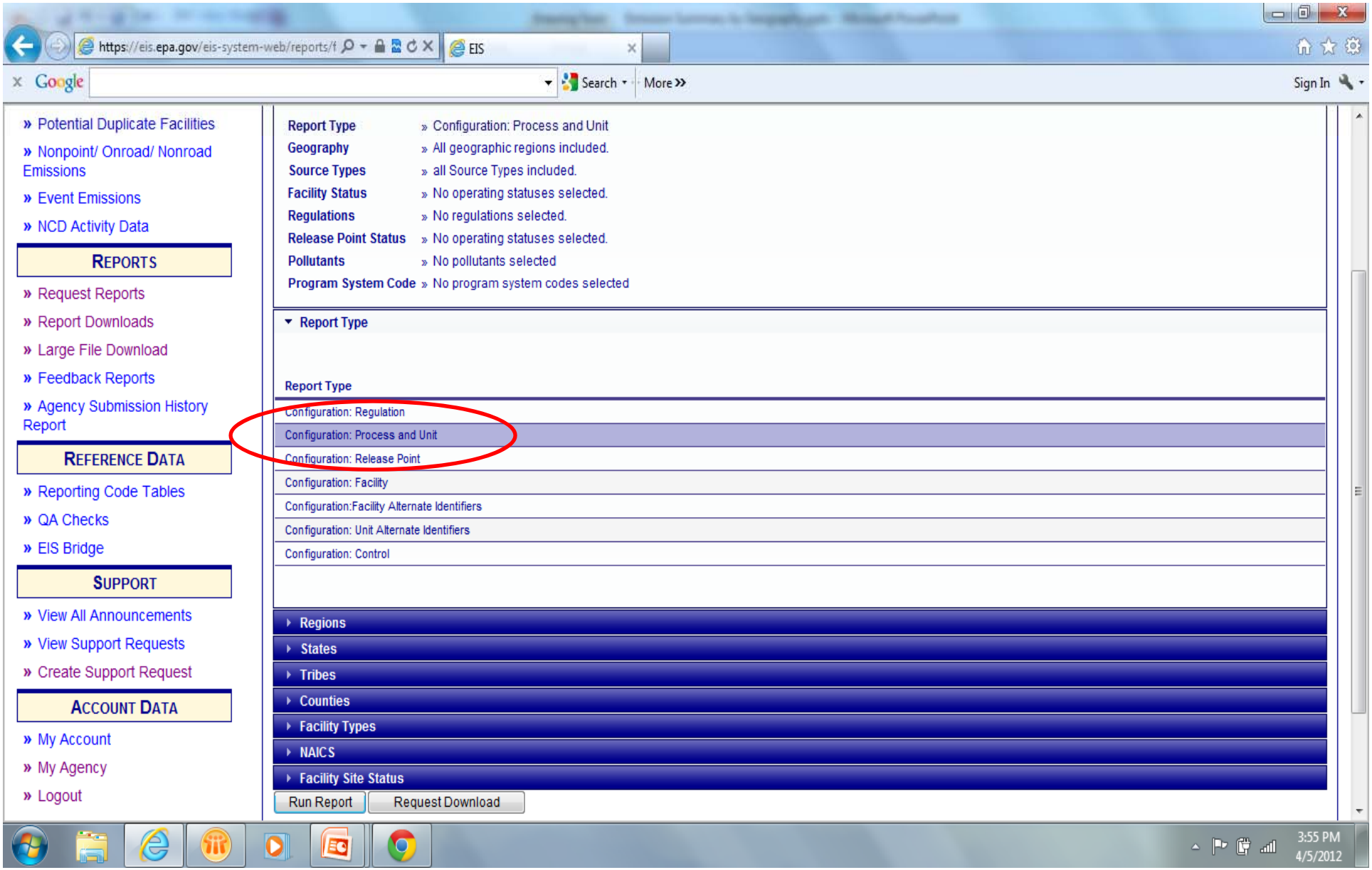
US EPA ARCHIVE DOCUMENT

Facility Configuration Report
Facility Level – Data Fields

- EIS Facility ID
- SLT Facility ID
- Program System Code
- Facility Name
- Company Name
- Facility Description
- Facility Status
- Facility Status Year
- State
- County Name
- Tribal Name
- Region Code
- NAICS Code
- NAICS Code Description
- Facility Type Code
- Facility Type Description
- Location Address
- Supplemental Location Text
- Locality Name
- State
- Zip Code
- Address Comment
- Site Latitude
- Site Longitude
- Coordinates Protected?
- Vertical Measure
- Horizontal Accuracy Measure
- Reference Datum
- Horizontal Collection Code
- Coordinate Comment
- Facility Comment

US EPA ARCHIVE DOCUMENT

Configuration – Process/Unit



US EPA ARCHIVE DOCUMENT

Facility Configuration Report
Process/Unit Level – Data Fields

- EIS Facility ID
- SLT Facility ID
- EIS Unit ID
- SLT Unit ID
- Unit ID Program System Code
- Unit Description
- Unit Type
- Design Capacity
- Design Capacity UOM
- Design Capacity Protected?
- Unit Status Code
- Unit Status Year
- Unit Operation Date
- Unit Comment

- EIS Process ID
- SLT Process ID
- Process ID Program System Code
- Process Description
- Source Classification Code
- SCC Level One Description
- SCC Level Two Description
- SCC Level Three Description
- SCC Level Four Description
- Emission Type Code
- Aircraft Engine Type Code
- Aircraft Engine Type Code Desc
- Last Inventory Year
- Process Comment

US EPA ARCHIVE DOCUMENT

Facility Configuration Report
Release Point Level – Data Fields

- EIS Facility ID
- SLT Facility ID
- EIS Unit ID
- SLT Unit ID
- EIS Process ID
- SLT Process ID
- EIS Release Point ID
- SLT Release Point ID
- Program System Code
- Process Rel Pt Apprt
- Apportionment Comment
- Rel Pt Latitude
- Rel Pt Longitude
- Coordinates Protected?
- Coordinate Derivation
- Rel Pt Type
- Rel Pt Description
- Stack Height (ft)
- Stack Ht Protected?
- Stack Diameter (ft)
- Stack Diameter Protected?
- Exit Gas Velocity
- Exit Gas Velocity UOM
- Exit Gas Velocity Protected?
- Ext Gas Flow Rate
- Exit Gas Flow Rate UOM
- Exit Gas Flow Rate Protected?
- Exit Gas Temp (F)
- Distance to Fence Line (ft)
- Fugitive Height (ft)
- Fugitive Width (ft)
- Fugitive Length (ft)
- Fugitive Release Angle
- Rel Pt Status
- Rel Pt Status Year
- Rel Pt Comments

US EPA ARCHIVE DOCUMENT

Facility Configuration Report
Facility Alternative ID – Data Fields

- EIS Facility ID
- Agency Facility ID
- Facility Name
- Company Name
- NAICS Code
- NAICS Code Description
- Facility Type Code
- Facility Type Description
- State
- County Name
- Program System Code
- Program System Description Alternate ID
- Effective Date
- End Date
- Alternative Identifier Protected?

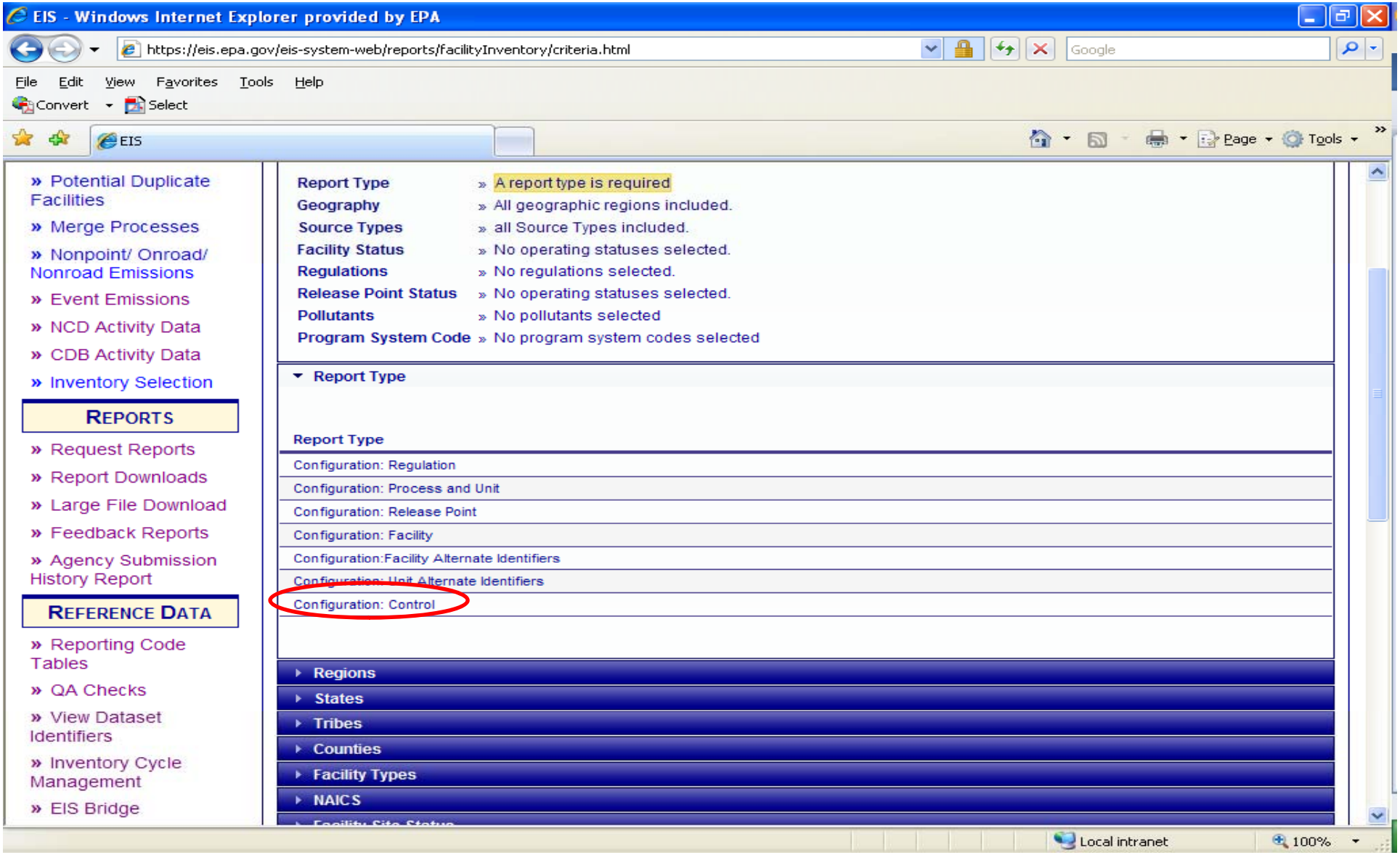
US EPA ARCHIVE DOCUMENT

Facility Configuration Report
Unit Alternative ID – Data Fields

- EIS Facility ID
- Agency Facility ID
- Facility Name
- Company Name
- NAICS Code
- NAICS Code Description
- Facility Type Code
- Facility Type Description
- State
- County Name
- EIS Unit ID
- Agency Unit ID
- Program System Code
  Program System Description
- Alternative ID
- Effective Date
- End Date
- Alternative Identifier Protected?

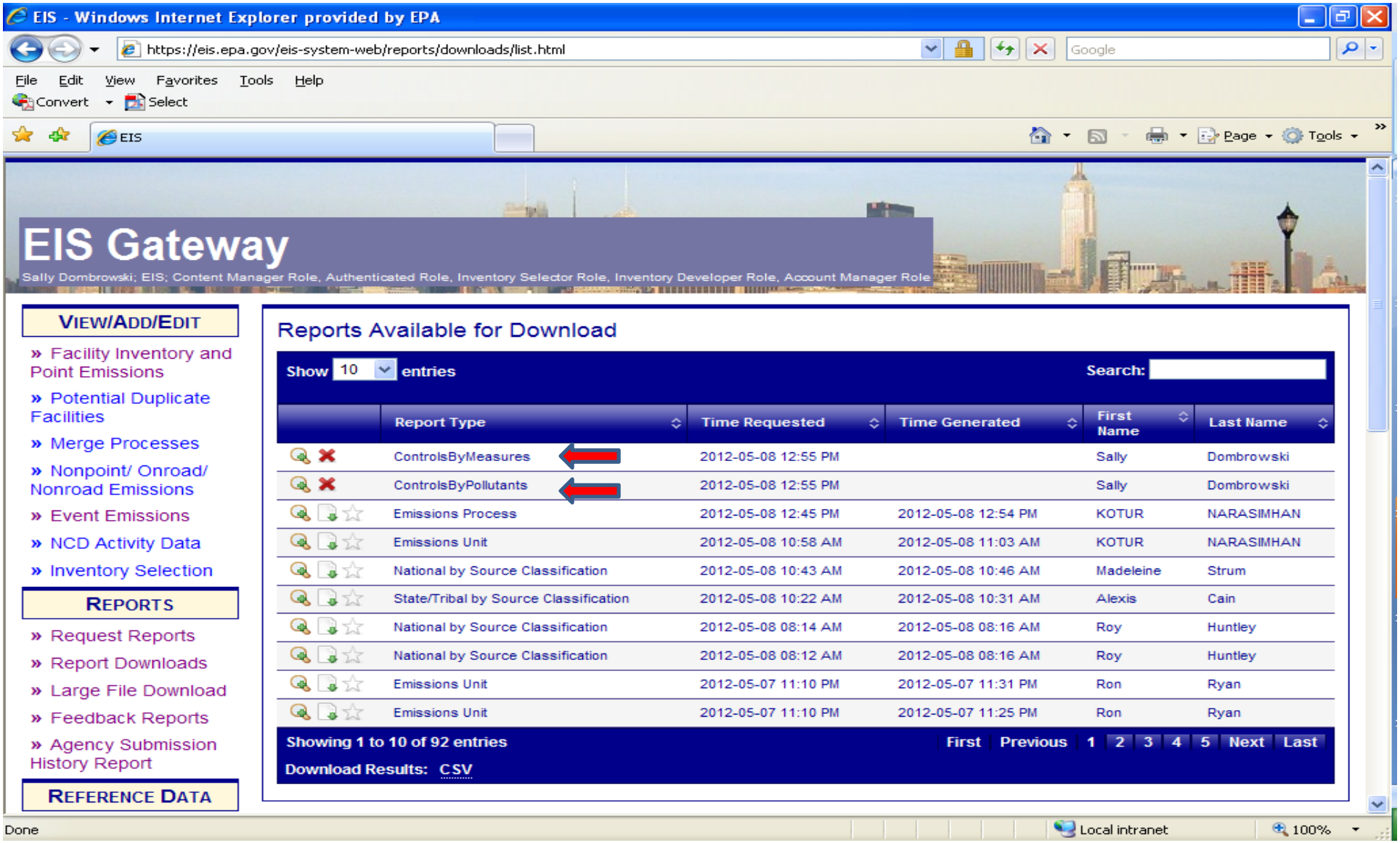
US EPA ARCHIVE DOCUMENT

Configuration - Controls



US EPA ARCHIVE DOCUMENT

Configuration - Controls



US EPA ARCHIVE DOCUMENT

Configuration - Controls

Control Measure

- EIS Facility ID
- EIS Unit ID
- EIS Process ID
- Agency Facility ID
- Agency Unit ID
- Agency Process ID
- SCC
- Control Applicability Level
- Control Description
- Percent Capture Efficiency
- Percent Effectiveness
- Control Comment
- Control Measure Code
- Control Measure Description
- Control Measure Type

Control Pollutant

- EIS Facility ID
- EIS Unit ID
- EIS Process ID
- Agency Facility ID
- Agency Unit ID
- Agency Process ID
- SCC
- Control Applicability Level
- Control Description
- Percent Capture Efficiency
- Percent Effectiveness
- Control Comment
- Pollutant Code
- Pollutant Name
- Pollutant Type
- Percent Reduction Efficiency

US EPA ARCHIVE DOCUMENT

Facility Configuration Report
Regulation Level – Data Fields

- EIS Facility ID
- SLT Facility ID
- EIS Unit ID
- SLT Unit ID
- EIS Process ID
- SLT Process ID
- Source Classification Code
- SCC Level One Description
- SCC Level Two Description
- SCC Level Three Description
- SCC Level Four Description
- Reg Applicability Level
- Reg Code
- Reg Code Type
- Reg Code Description
- Part Description
- Sub-Part Description
- SLT Reg Description
- Reg Protected?
- Applicability Start Year
- Regulation Comment
- Date Last Updated

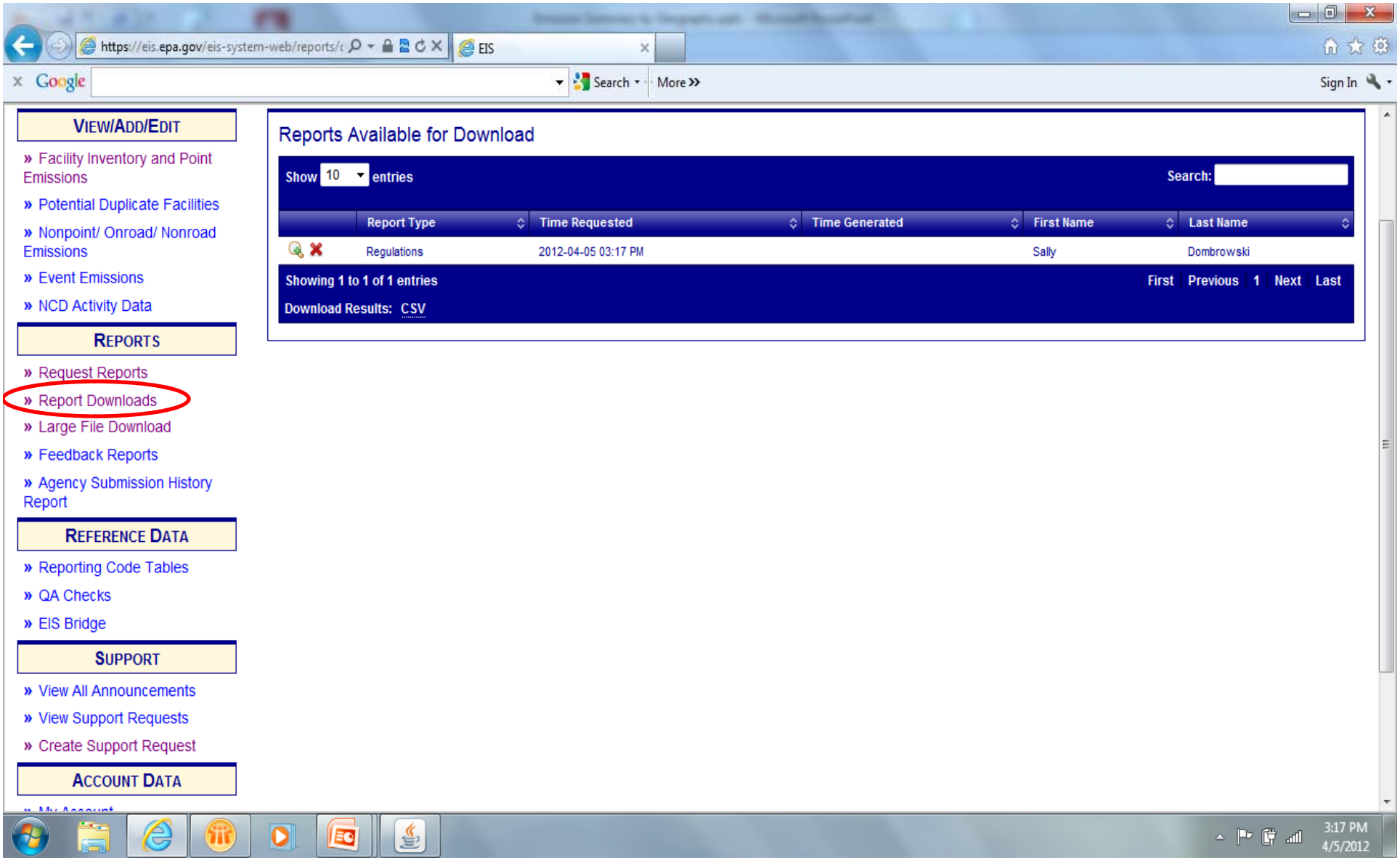
US EPA ARCHIVE DOCUMENT

What can the Configuration Report be used for?

- Check to see if SCC is consistent between unit description/comment and process description/comment. Help to eliminate the use of 399999
- Tracking changes for facility which are expected to be covered by regulations.
- Check consistency across facility such as the Unit Type Code is the same as unit description

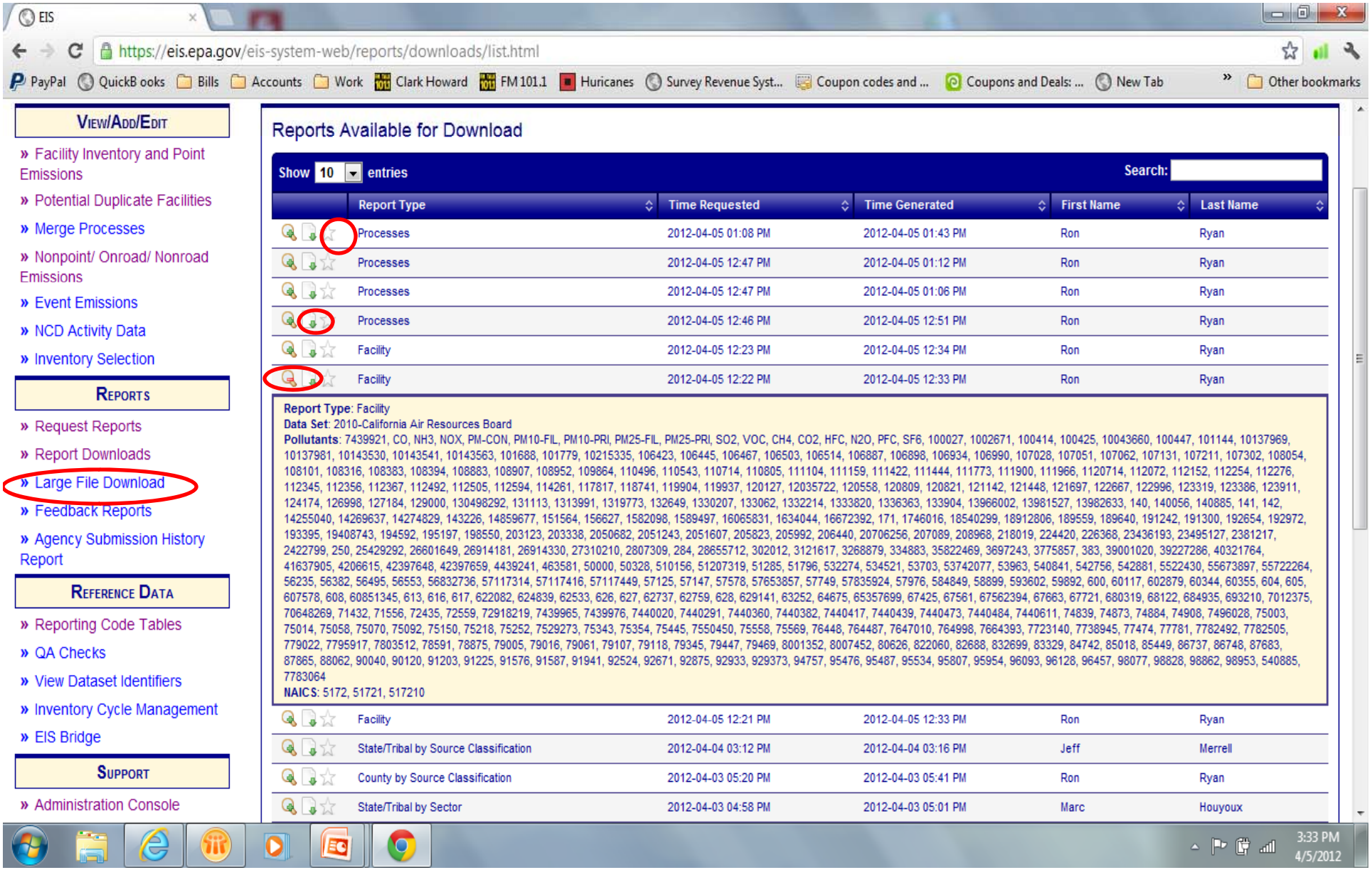
US EPA ARCHIVE DOCUMENT

Report Download



US EPA ARCHIVE DOCUMENT

Report Download



US EPA ARCHIVE DOCUMENT

I want to…

- **Find what counties in my state, reported residential wood emissions in 2008**
  - Emissions Summary by Geography
  - Select a Report Type of County by Sector
  - Select 2008 data set for your agency
  - Under Sectors filter use the Search box to find any Residential sectors using words such as "Residential" or "wood"
  - Select the Sector Fuel Comb-Residential-Wood
  - Request Download

US EPA ARCHIVE DOCUMENT

I want to…

- **Do a comparison across inventory years**.
  - Select an emission summary report at the level of interest (facility or geographic)
  - Select one a single data set (2008 Alabama Department of Environmental Management; or 2009 General Purpose Release; or 2008 EPA Onroad NCD20101201)
  - Select your pollutants of interest
  - Select Request Report
  - Repeat for each inventory year or dataset that you want to compare.
  - Use MS Access to link the tables and create your comparison.

US EPA ARCHIVE DOCUMENT

I want to…

- See all of the emission factors which were used in the 2008 nonpoint inventory.
  - Select Emissions Snapshot
  - Select inventory year data set such as 2008 North Carolina Department of Environmental and Natural Resources; or 2008 EIAG all in NP
  - Select Data Category = Nonpoint
  - Do this snapshot twice
    - Once for your agency
    - Second for EPA Augmented data
  - Use Access to link the reports together.

US EPA ARCHIVE DOCUMENT

I want to…

- Download the Event Inventory
  - Currently there are no reports which will allow you to download day specific data at this time.
  - Emissions Summary by Geography/County Level by SCC
    - **2008EPA Event_Summary data set**
    - Pollutants of interest
    - Region, State or County of interest
    - Data Category = Event

US EPA ARCHIVE DOCUMENT

Questions

- Send me scenarios of what you would like to pull out of EIS, and I will add them to the Q&A with instructions.

Sally Dombrowski

919-541-3269

dombrowski.sally@epa.gov