Updates and Improvements Made to the US EPA's WebFIRE Database

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Topics for Discussion

- What is WebFIRE?
- Background
- New Approach Components & Data Flow
- Current Status of WebFIRE
- Draft Factors
- Public Review Process of Emissions Factors
- WebFIRE Walk-through

What is WebFIRE?

- The Environmental Protection Agency's (EPA) online database that contains emissions factors for criteria and hazardous air pollutants for both industrial and non-industrial processes
- The database also contains reports submitted to EPA via the Compliance and Emissions Data Reporting Interface (CEDRI) in response to regulatory requirements
  - **Air Emissions Report (AER) -** Also known as periodic reports (e.g., semiannual reports, compliance reports).
  - **Performance Test Reports** - Emissions source test data and performance evaluations/relative accuracy test audits (RATA).
  - **Notification reports** - Notifications of compliance status (NOCS) certifying that compliance with an applicable regulation was achieved.

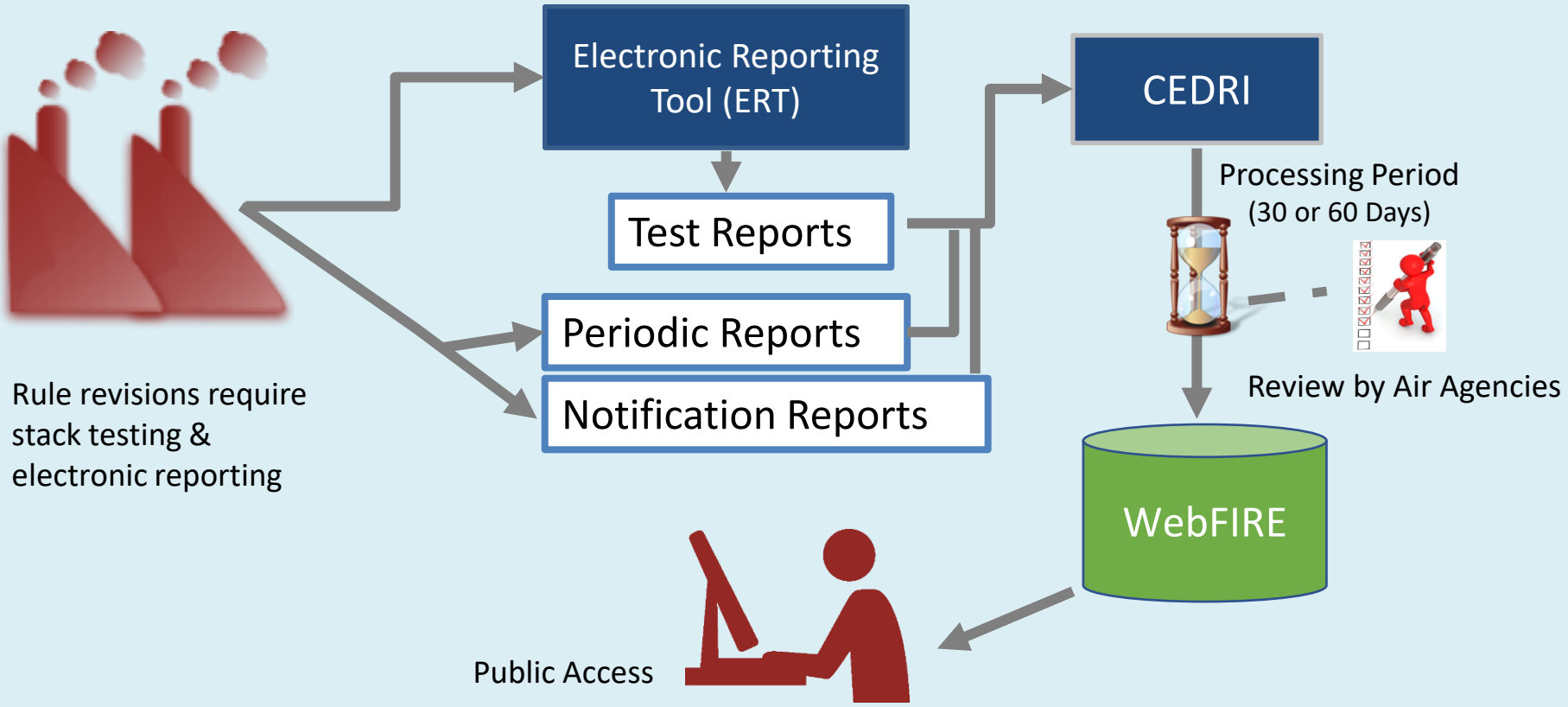
Background

- WebFIRE contains most of the AP-42 data as well as a lot of other data submitted through CEDRI
  - Is AP-42 going away? **No.**
    - AP-42 contains process information and references for many factors
- New emissions factor development approach relies upon electronic submission of stack test reports
- Data from stack test reports received through CEDRI will then be used to calculate new or revised emissions factors
  - Emissions factor development is faster, more representative, higher quality and more objective than previous approach

New Approach Components

- Use of Electronic Reporting Tool (ERT) to allow electronic submission of stack test reports
- Use of data submission portal (CEDRI)
- Development of WebFIRE to semi-automatically calculate new or revised emissions factors based on procedures specified in the emissions factors procedures document
- Rule revisions to require electronic reporting of stack test reports

Electronic Reporting Components & Data Flow



Current Status

- Over 30,000 stack test reports submitted through CEDRI are available in WebFIRE since 2012
- Emissions factor procedures have been programmed into WebFIRE
- Finalized emissions factors procedures document (November 2021)
- Search features have been improved
- Added new user defined emissions factor functionality
- Currently working to address identified inaccuracies
  - Updated bulk download has been created and will replace current version soon
- Drafted 3 new factors

Drafted Factors – 11/12/2021

SCC	Control	Pollutant	Draft Factor	Existing Factor	% Difference	Quality	# Data Points Included (Excluded)
10200902 - External Combustion Boilers; Industrial; Wood/Bark Waste; Wood/Bark-fired Boiler	UNCONTROLLED	CARBON MONOXIDE	7.50E-01 lb/ Million Btus Heat Input	6.00E-01 lb/ Million Btus Heat Input	25.01%	Highly	34 (1)
10200902 – External Combustion Boilers; Industrial; Wood/Bark Waste; Wood/Bark-fired Boiler	ELECTROSTATIC PRECIPITATOR	PM, FILTERABLE	1.25E-02 lb/ Million Btus Heat Input	N/A		Highly	48(7)
30500623 – Industrial Processes; Mineral Products; Cement Manufacturing (Dry Process); Preheater/Precalciner Kiln	FABRIC FILTER	NITROGEN OXIDES (NOX)	4.10E+00 lb/Tons Clinker Cooler Produced	N/A		Moderately	9(15)

Public Review Process of Emissions Factors

- Emission factor developments/revisions are driven by the data received from E-Reporting
- Factors not drafted on any specific "timeframe"
- Posted on the Air Emissions Factors and Quantification Drupal site:

  https://www.epa.gov/air-emissions-factors-and-quantification/documentation-supporting-proposed-and-final-emissions

  – Draft AP-42 sections will also be provided with red line strike out

Public Review Process of Emissions Factors

- Notifications sent out via CHIEF listserv:
  https://www.epa.gov/chief/chief-listserv
- 60-day comment period
- EPA reviews public comments and determines if emissions factors should be revised/developed
  - To submit comments on draft factors, send email to **chief_info@epa.gov**
- **Comment period for current draft factors ends January 11, 2022**

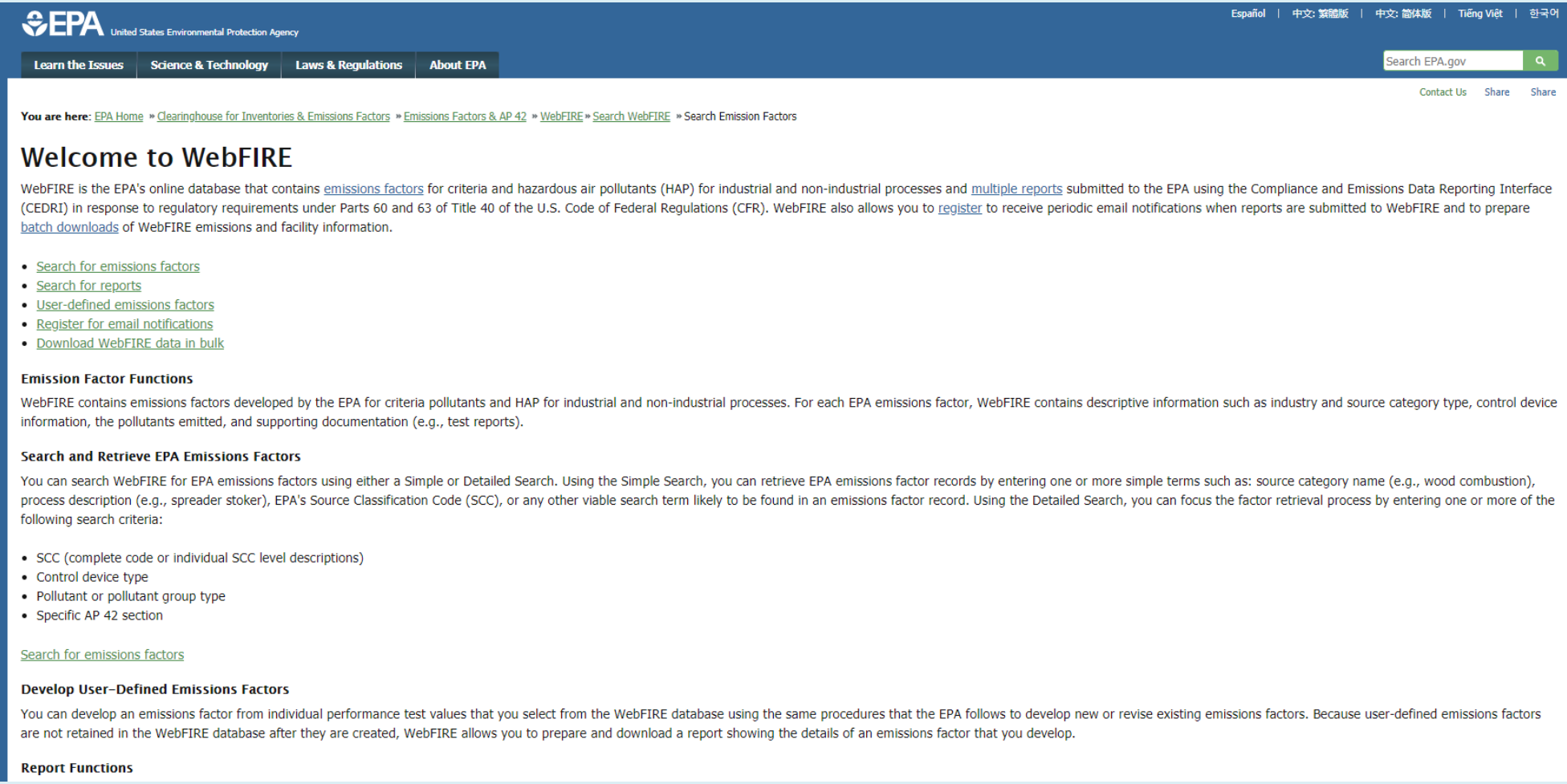
Registering with Chief Listserv

- To join the CHIEF Listserv, send an e-mail to **join-chief@lists.epa.gov**

- To unsubscribe from the Listserv, send an e-mail to **leave-chief@lists.epa.gov**

How to Access WebFIRE

- WebFIRE database: https://cfpub.epa.gov/webfire/



EPA United States Environmental Protection Agency

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You are here: EPA Home » Clearinghouse for Inventories & Emissions Factors » Emissions Factors & AP 42 » WebFIRE » Search WebFIRE » Search Emission Factors

Welcome to WebFIRE

WebFIRE is the EPA's online database that contains emissions factors for criteria and hazardous air pollutants (HAP) for industrial and non-industrial processes and multiple reports submitted to the EPA using the Compliance and Emissions Data Reporting Interface (CEDRI) in response to regulatory requirements under Parts 60 and 63 of Title 40 of the U.S. Code of Federal Regulations (CFR). WebFIRE also allows you to register to receive periodic email notifications when reports are submitted to WebFIRE and to prepare batch downloads of WebFIRE emissions and facility information.

- Search for emissions factors
- Search for reports
- User-defined emissions factors
- Register for email notifications
- Download WebFIRE data in bulk

Emission Factor Functions

WebFIRE contains emissions factors developed by the EPA for criteria pollutants and HAP for industrial and non-industrial processes. For each EPA emissions factor, WebFIRE contains descriptive information such as industry and source category type, control device information, the pollutants emitted, and supporting documentation (e.g., test reports).

Search and Retrieve EPA Emissions Factors

You can search WebFIRE for EPA emissions factors using either a Simple or Detailed Search. Using the Simple Search, you can retrieve EPA emissions factor records by entering one or more simple terms such as: source category name (e.g., wood combustion), process description (e.g., spreader stoker), EPA's Source Classification Code (SCC), or any other viable search term likely to be found in an emissions factor record. Using the Detailed Search, you can focus the factor retrieval process by entering one or more of the following search criteria:

- SCC (complete code or individual SCC level descriptions)
- Control device type
- Pollutant or pollutant group type
- Specific AP 42 section

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Develop User-Defined Emissions Factors

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Report Functions

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Emission Factor Search

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For the Source Classification Code (SCC), Pollutant, and Control Device categories, clicking the category of interest and then clicking the link to "Select options" opens a dropdown menu of the available search terms for that category. You can choose one or more terms of interest by clicking on the check box to the left of the dropdown menu. The "Select options" link also opens a filter box that allows you to limit the items shown in the dropdown menu to only those that contain your filter box entry somewhere in the description of the term. For example:

- Entering "101001" in the SCC filter box reduces the dropdown menu to only those items that contain "101001" in the SCC description (e.g., 10100101-External Combustion Boilers; Electric Generation; Anthracite Coal; Pulverized; Boiler).
- Entering "10" in the Pollutant filter box reduces the dropdown menu to only those items that contain "10" in the pollutant description (e.g., Polonium 210).
- Entering "ammonia" in the Control Device filter box reduces the dropdown menu to only those items that contain "ammonia" in the control device description (e.g., ammonia injection).

Clicking on the "Choose a section from AP-42" link opens the dropdown menu showing the sections of EPA's AP-42 (*Compilation of Air Pollutant Emissions Factors*) available for refining your search. For example, selecting "Bituminous and Subbituminous Coal Combustion" will retrieve only the emissions factors corresponding to AP-42 Chapter 1 (External Combustion Sources), Section 1.1 (Bituminous and Subbituminous Coal Combustion). You can select multiple AP-42 sections by holding down the "Ctrl" button on your keyboard.

- Source Classification Code
- Pollutant
- Control Device
- Choose a section from AP-42
- Choose to include Revoked Factors

Expand all Collapse all

Submit Search Reset

Search Results

Emission Factor Results

10 factors found.

☑	**SCC**	10100101		
	External Combustion Boilers ; Electric Generation ; Anthracite Coal ; Pulverized Coal			
	POLLUTANT	Ammonia	NEI NH3	CAS 7664-41-7
	Control(s): UNCONTROLLED			
	Emission Factor -- 5.65E-01 Lb per 1000 Tons Anthracite Burned;		Details	
	Quality -- E Emissions Factors Applicability			

☑	**SCC**	10100101		
	External Combustion Boilers ; Electric Generation ; Anthracite Coal ; Pulverized Coal			
	POLLUTANT	Ammonia	NEI NH3	CAS 7664-41-7
	Control(s): SELECTIVE NONCATALYTIC REDUCTION FOR NOX			
	Emission Factor -- 6.30E-01 Lb per Tons Anthracite Burned;		Details	
	Quality -- C Emissions Factors Applicability			

☑	**SCC**	10100101		
	External Combustion Boilers ; Electric Generation ; Anthracite Coal ; Pulverized Coal			
	POLLUTANT	Ammonia	NEI NH3	CAS 7664-41-7
	Control(s): SCR (SELECTIVE CATALYTIC REDUCTION)			
	Emission Factor -- 3.10E-01 Lb per Tons Anthracite Burned;		Details	
	Quality -- C Emissions Factors Applicability			

Detail Page

Emission Factor Details

SCC	10100101	
Level 1	External Combustion Boilers	
Level 2	Electric Generation	
Level 3	Anthracite Coal	
Level 4	Pulverized Coal	
POLLUTANT	Ammonia	NEI NH3 CAS 7664-41-7
Control(s)	UNCONTROLLED	
Emission Factor	5.65E-01 Lb per 1000 Tons Anthracite Burned	
Quality	E Emissions Factors Applicability	
References	Development and Selection of Ammonia Emission Factors - Final Report. R. Battye, W. Battye, C. Overcash, and S. Fudge; EC/R Incorporated; Durham, NC. Report prepared for USEPA Office of Research and Development; August, 1994.	
AP 42 Section		
Formula		
Notes		

Search for Reports

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Report Functions

Search for Reports

WebFIRE

WebFIRE Report Search and Retrieval

WebFIRE contains the following types of reports that are submitted to the EPA's Compliance and Emissions Data Reporting Interface (CEDRI):

- Air Emissions Reports - Air emissions reports (AERs) for an applicable regulation (e.g., compliance summary and excess emissions reports).
- Performance Test Reports - Emissions source test data and performance evaluations/relative accuracy test audits (RATA) submitted by facilities.
- Notification of reports - Notifications of compliance status (NOCS) submitted by facilities certifying that initial compliance with an applicable regulation was achieved.

To begin your search, specify the report type(s) of interest below:

Report Type

All
Performance Test Reports
Air Emissions Reports
Notification of Compliance Status Reports

(Control-Click for multiple selections)

Submit Search Reset

Search for Reports

WebFIRE

WebFIRE Report Search and Retrieval Criteria

You can select one or more of the following search criteria to refine your search for selected report types from the previous page. To enter your search criteria, click on arrow to open or close the criteria menu. After you have selected the search criteria of interest, click on the Submit button to retrieve the relevant reports from WebFIRE.

Search Criteria for All Reports

- Submitting Organization and/or Facility Name

  Submitting Organization

  Facility Name
  Belews Creek

- CEDRI Submission Date
- Facility Location
- Regulatory Part and Subpart
- FRS ID
- SCC (for performance tests only)
- Pollutant (for performance tests only)
- Pollutant Test Method (for performance tests only)
- Control Device (for performance tests only)

Submit Search Reset Expand all Collapse all

Search Results

WebFIRE Report Search Results and Viewing Instructions

The Report Search Results table below shows the **159** records in WebFIRE that match your search criteria. **These records and any related attachments may or may not have been reviewed by the state, local, or tribal air pollution agency or delegated authority.**

The Report Search Results table below shows the records and any related attachments (indicated by the icon in the search results table). Click REVISE CURRENT SEARCH to return to your search criteria. Click NEW SEARCH to start a new search.

▸ Viewing Instructions

▸ Downloading Reports

Report Search Results

Counts: 159

Show 50 entries

Search Page:

Organization	Facility	City	State	County	Submission Date	Report Type	Report Sub Type	Pollutants	Control Devices	Document	Related Attachment(s)	Include Report in Bulk Download	Include Data in CSV File ☐ Select All
Belews Creek	Belews Creek	Belews Creek	NC	STOKES COUNTY	2015-06-12 18:47:56.879	NOCS	MATS_NOCS				No Attachments	☐	N/A
Belews Creek	Belews Creek	Belews Creek	NC	STOKES COUNTY	2015-07-14 14:45:30.517	NOCS	MATS_NOCS				No Attachments	☐	N/A
Belews Creek	Belews Creek	Belews Creek	NC	STOKES COUNTY	2015-07-27 08:45:48.823	AER	MATS_CR				No Attachments	☐	N/A
Belews Creek	Belews Creek	Belews Creek	NC	STOKES COUNTY	2015-07-27 08:46:09.488	AER	MATS_CR				No Attachments	☐	N/A
Belews Creek	Belews Creek	Belews Creek	NC	STOKES COUNTY	2015-07-27 08:46:29.342	AER	MATS_CR				No Attachments	☐	N/A
Belews Creek	Belews Creek	Belews Creek	NC	STOKES COUNTY	2015-07-27 08:46:49.18	AER	MATS_CR				No Attachments	☐	N/A
Belews Creek	Belews Creek	Belews Creek	NC	STOKES COUNTY	2015-07-30 20:45:44.476	AER	MATS_TDR				No Attachments	☐	N/A
Belews Creek	Belews Creek	Belews Creek	NC	STOKES COUNTY	2015-07-30 20:46:05.641	AER	MATS_TDR				No Attachments	☐	N/A
Belews Creek	Belews Creek	Belews Creek	NC	STOKES COUNTY	2015-10-28 11:26:14.079	AER	MATS_TDR				No Attachments	☐	N/A

User Defined Emissions Factors

- Added functionality to allow users to develop own emissions factors from performance test data using EPA procedures
- Users can select which records they want to include in factor
  - Dataset must contain at least 3 values for data outlier test
  - **NOTE – WebFIRE does not retain or endorse factors created with the user defined emissions factor functionality**

User Defined Emissions Factors

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Search for emissions factors

User Defined Emissions Factors

WebFIRE

Develop User-defined Emission Factors

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The data outlier test in the WebFIRE emissions factor calculation procedures requires that the data set you select include at least three data values. This CSV table lists the data sets (grouped by Source Classification Code (SCC), pollutant, control device configuration, and activity) for which the WebFIRE database contains at least three data values.

Available SCCs

Select a SCC - (Required)

Available Pollutants

Select a Pollutant (Required)

Available Control Device

Select a Control Device Configuration (Required)

Available Units

Select a Unit (Required)

Available Activity

Select an Activity (Required)

Submit Search Reset

User Defined Emissions Factors

WebFIRE

Results of Candidate Data Search

WebFIRE contains **16** records that match your criteria. To calculate an emissions factor, select at least 3 records from the table below and click the "Calculate Emission Factor" button.

CSV

Search:

Retain in Data Set Select All / Deselect All	SCC	Control Device	Pollutant	Factor Value	Test Method	Test Data Units	Test Data Activity	Test Rating	Detection Flag	Test Year	Facility Name	Test City	Test State	Project Data Set
☐	10100204	UNCONTROLLED	PM, filterable	1.54E-02	Method 5	LB	MILLION BTUS HEAT INPUT	67	ADL	2019	Eastman Chemical Company	Kingsport	TN	PDS
☐	10100204	UNCONTROLLED	PM, filterable	4.18E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2018	Eastman Chemical Company	Kingsport	TN	PDS
☐	10100204	UNCONTROLLED	PM, filterable	2.75E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2018	Eastman Chemical Company	Kingsport	TN	PDS
☐	10100204	UNCONTROLLED	PM, filterable	3.00E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2018	Eastman Chemical Company	Kingsport	TN	PDS
☐	10100204	UNCONTROLLED	PM, filterable	1.98E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2018	Eastman Chemical Company	Kingsport	TN	PDS
☐	10100204	UNCONTROLLED	PM, filterable	2.20E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2018	Eastman Chemical Company	Kingsport	TN	PDS
☐	10100204	UNCONTROLLED	PM, filterable	9.40E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2018	Eastman Chemical Company	Kingsport	TN	PDS
☐	10100204	UNCONTROLLED	PM, filterable	3.15E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2019	Eastman Chemical Company	Kingsport	TN	PDS
☐	10100204	UNCONTROLLED	PM, filterable	4.76E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2018	Eastman Chemical Company	Kingsport	TN	PDS

User Defined Emissions Factors

Table 1. Results of emissions factor data set

CSV Copy

Key Parameters	Results
SCC	10100204
Does the SCC contain more than 15 sources?	Yes
Pollutant	PM, FILTERABLE
Units	LB
Activity	MILLION BTUS HEAT INPUT
Factor Quality Rating	Moderate
Number of individual test data values used to calculate the emissions factor	7
Number of individual test data values excluded from the calculation	0
Composite Test Rating	68.7
Control Device Configuration	UNCONTROLLED
User-defined Emission Factor	3.58E-02

User Defined Emissions Factors

Table 2. The data set values that WebFIRE included in the emissions factor calculations

Download CSV Data

Individual Test Data Value	Individual Test Method	Individual Test Data Units	Individual Test Data Activity	Individual Test Rating	Detection Limit Flag	Year of Test	Facility Name	Test City	Test State	ERT Project Data Set
9.40E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2018	Eastman Chemical Company	Kingsport	TN	PDS
4.18E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2018	Eastman Chemical Company	Kingsport	TN	PDS
3.00E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2018	Eastman Chemical Company	Kingsport	TN	PDS
2.75E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2018	Eastman Chemical Company	Kingsport	TN	PDS
2.20E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2018	Eastman Chemical Company	Kingsport	TN	PDS
1.98E-02	Method 5	LB	MILLION BTUS HEAT INPUT	69	ADL	2018	Eastman Chemical Company	Kingsport	TN	PDS
1.54E-02	Method 5	LB	MILLION BTUS HEAT INPUT	67	ADL	2019	Eastman Chemical Company	Kingsport	TN	PDS

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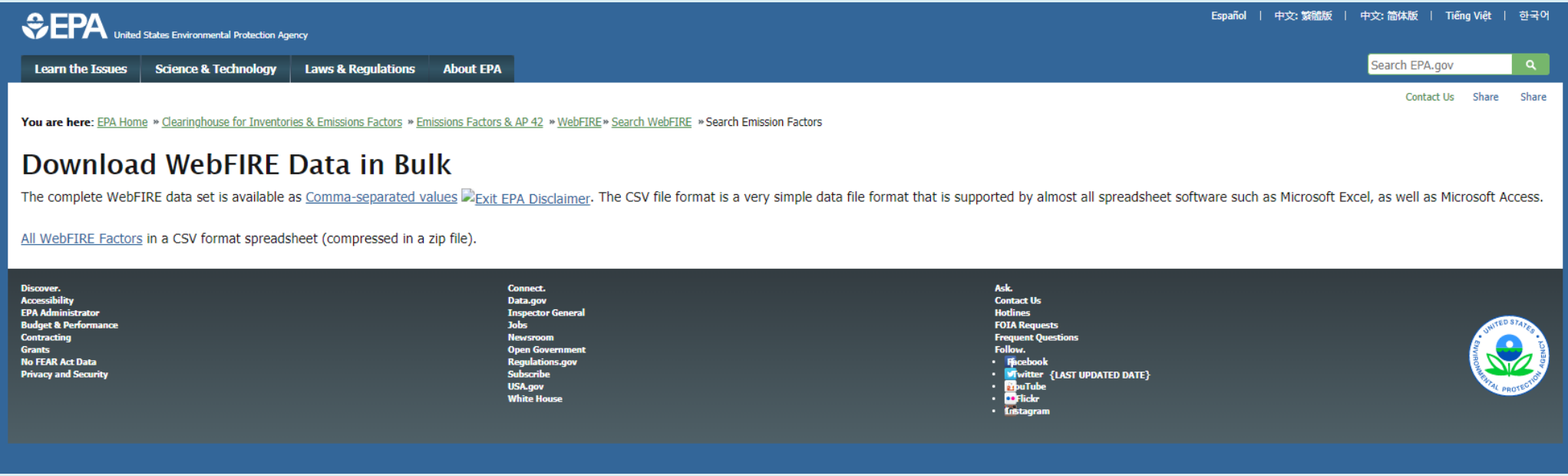
Report Functions

You can search WebFIRE for reports submitted in response to regulatory requirements under 40 CFR Parts 60 and 63. The links below describe the types of reports contained in WebFIRE:

Download Data in Bulk



EPA United States Environmental Protection Agency

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Download WebFIRE Data in Bulk

The complete WebFIRE data set is available as Comma-separated values Exit EPA Disclaimer. The CSV file format is a very simple data file format that is supported by almost all spreadsheet software such as Microsoft Excel, as well as Microsoft Access.

All WebFIRE Factors in a CSV format spreadsheet (compressed in a zip file).

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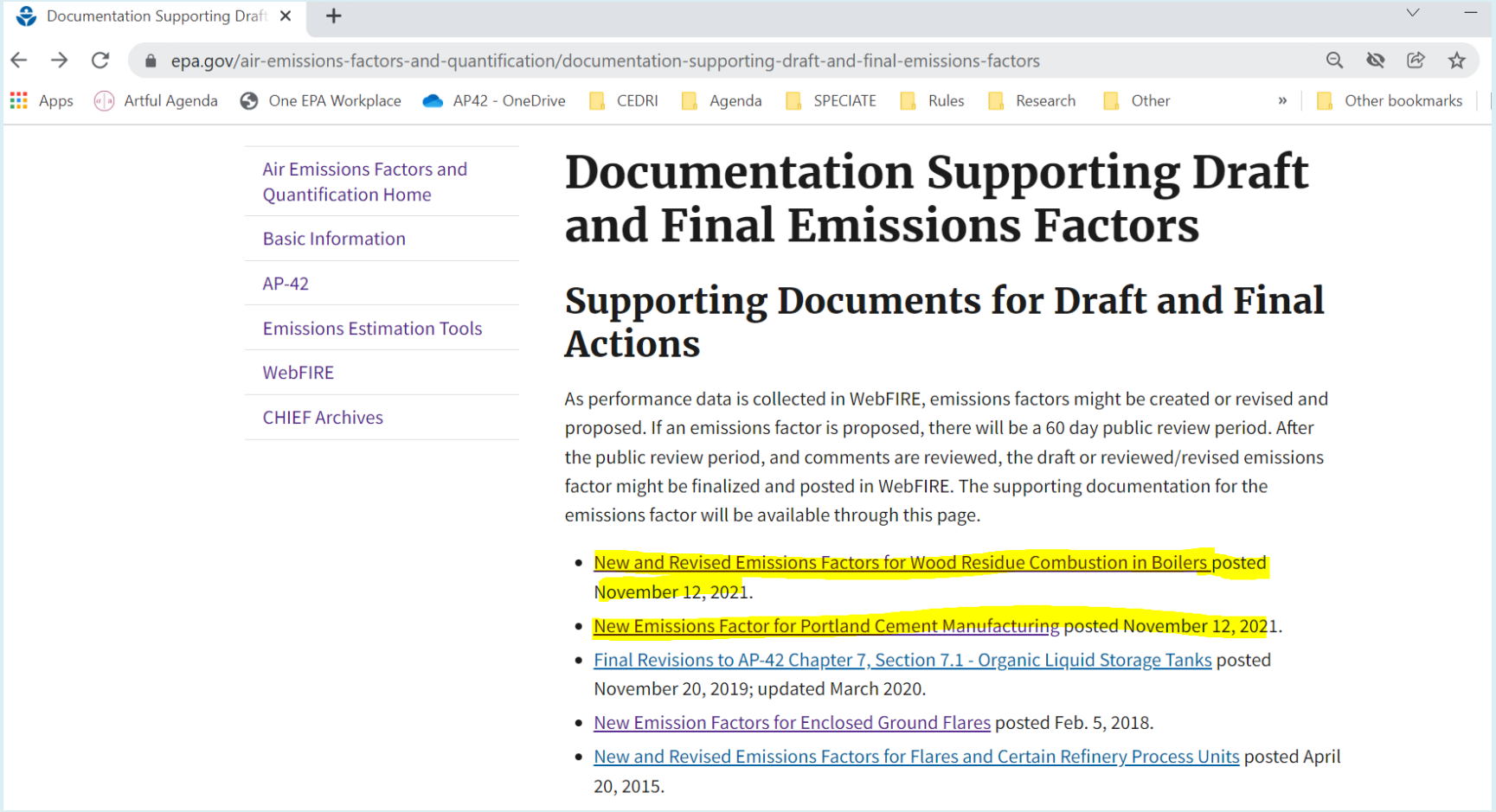
Accessing Draft Factors



WebFIRE Useful Links

- WebFIRE Database: https://cfpub.epa.gov/webfire/
- Emissions Factors Procedures Document: https://www.epa.gov/air-emissions-factors-and-quantification/procedures-development-emissions-factors-stationary-sources
- AP-42: https://www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emissions-factors
- ERT: https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert
- AP-42 References: https://gaftp.epa.gov/ap42/
- Notifications sent out via CHIEF listserv:
- https://www.epa.gov/chief/chief-listserv

Questions?

Contact:

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