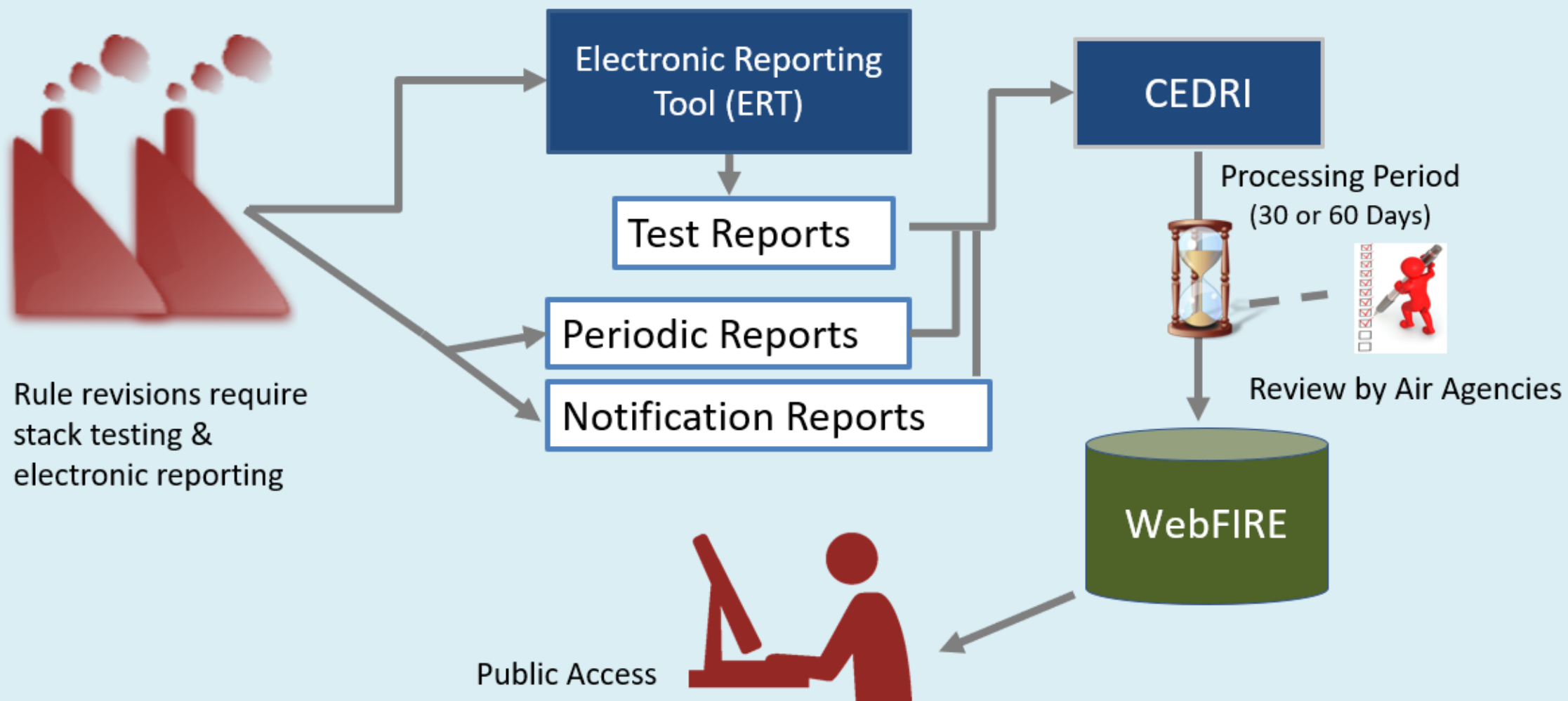


From stack tests to emission factors: A complete overview of EPA's electronic reporting process and emission factor program

Topics for Discussion

- Overview of Process
 - Uses of Electronic Reporting
 - Regulations
 - Electronic Reporting Tool (ERT) files and spreadsheets
 - Compliance Emissions Data Reporting Interface (CEDRI)
 - WebFIRE
- Live action example
 - CEDRI demo
 - WebFIRE demo
 - ERT Demo
- Emissions Factor Development

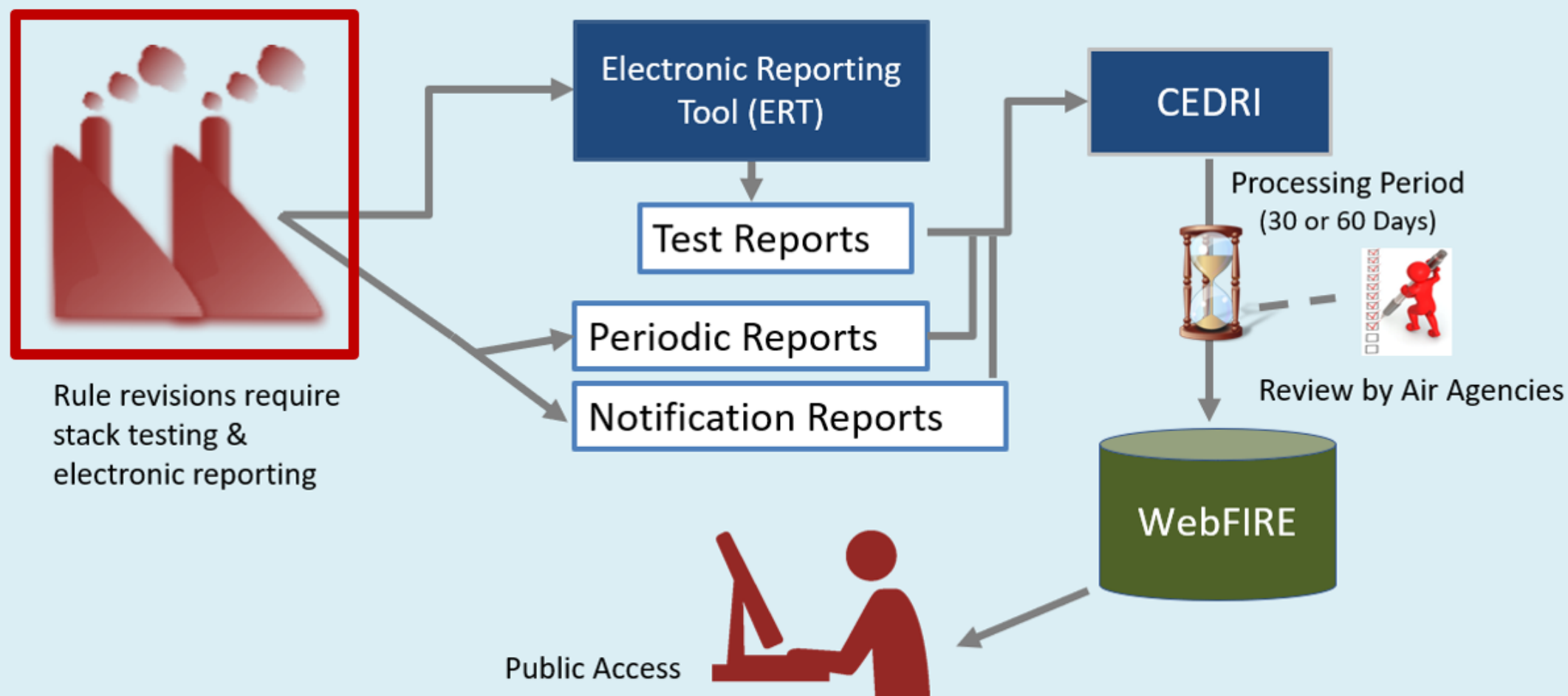
Electronic Reporting Data Flow



How Does EPA Use the Data?

- Create, revise and review emissions factors
- Emission inventory improvement
- Rule development
- Maximum Achievable Control Technology (MACT) floor development
- Risk and technology review
- Control device assessment
- Detection limit review
- Data sharing

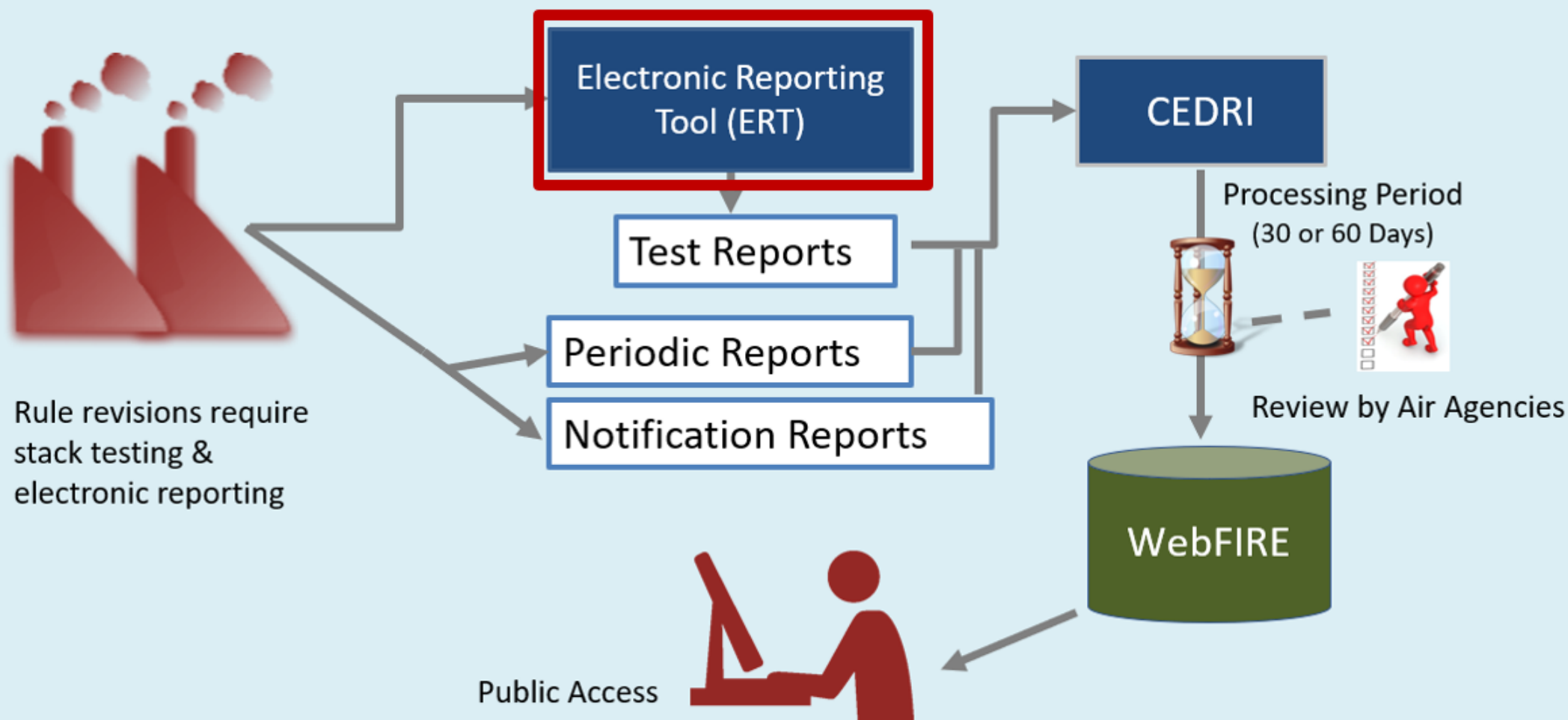
Step 1: Rule Revisions



Regulations

- Rules requiring electronic reporting - 40 CFR:
 - Part 52 Approval and Promulgation of Implementation Plans
 - Part 59 National Volatile Organic Compound Emission Standards for Consumer and Commercial Products
 - Part 60 New Source Performance Standards
 - Part 62 Federal Plans
 - Part 63 National Emission Standards for Hazardous Air Pollutant
- CEDRI also collects 40 CFR Part 49, 70, and 71 Title V reports.

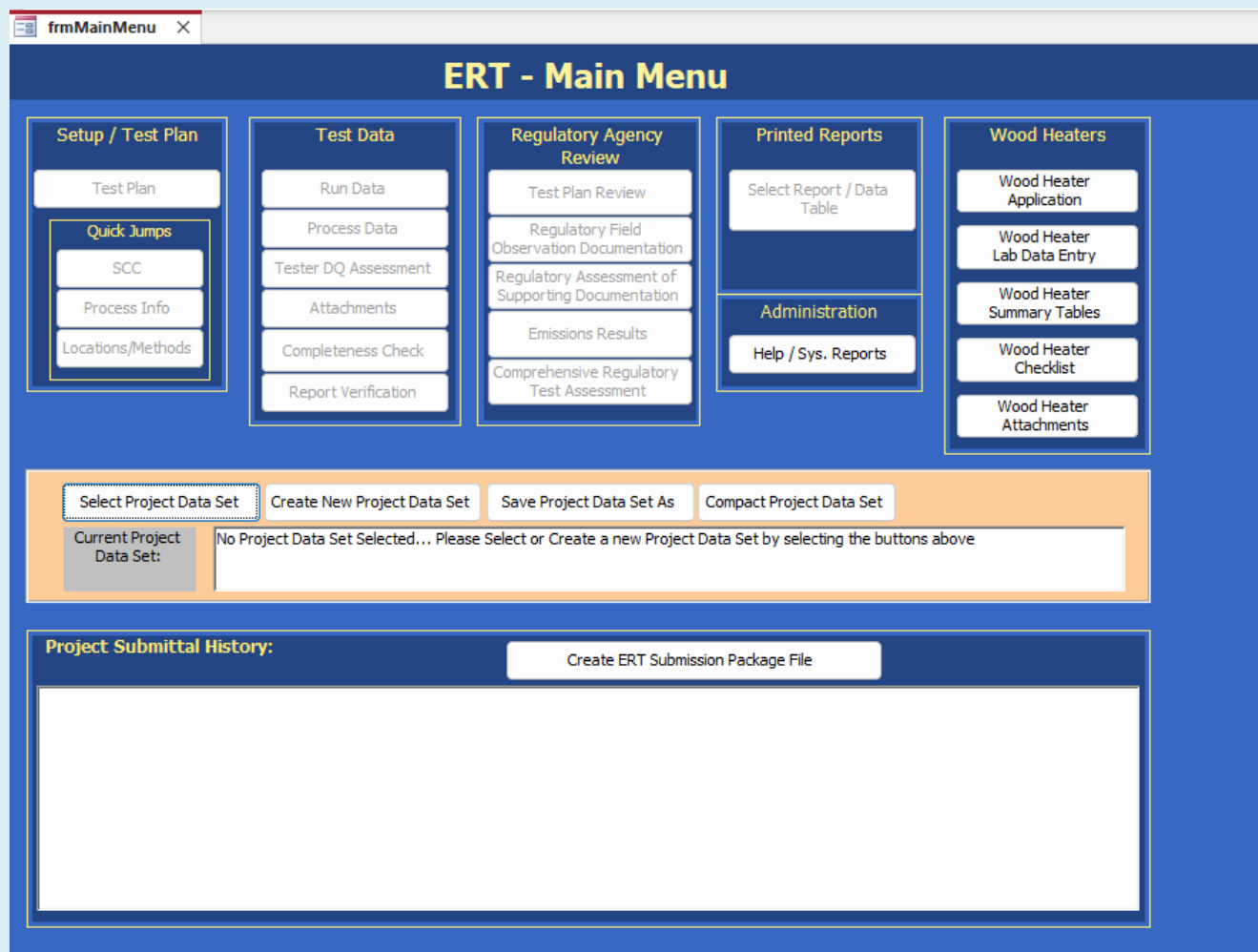
Step 2: Enter Data into ERT



What is the Electronic Reporting Tool (ERT)?

- Currently, the Electronic Reporting Tool (ERT) is a MS Access database desktop application
- Tool that can create electronic alternative for paper reports of performance tests and evaluations (RATAs) and wood heater application and summary report
- Supports all methods and 5 Performance Specifications
- **ERT Website:** <https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>

ERT



The screenshot shows the 'ERT - Main Menu' web application. The interface is organized into several columns of buttons and a bottom section for project management.

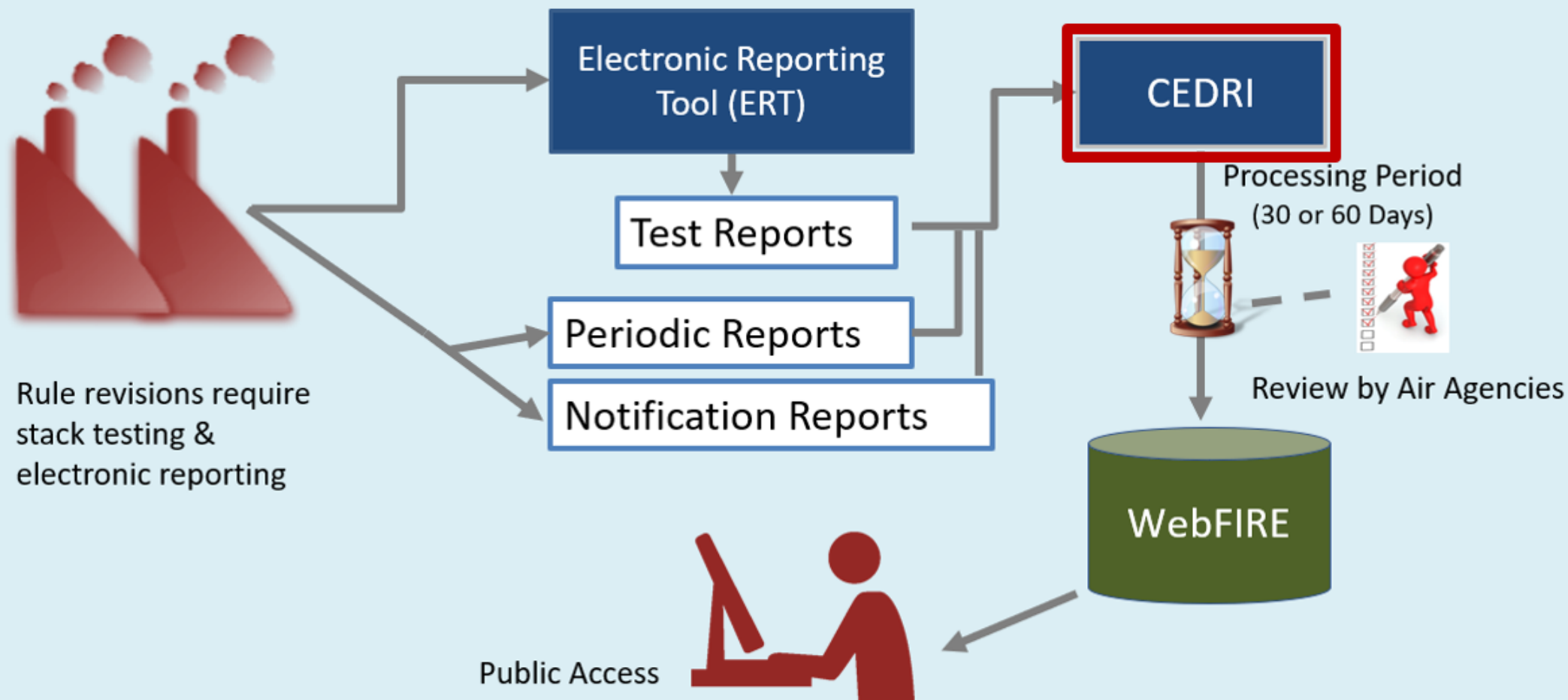
- Setup / Test Plan:** Test Plan, Quick Jumps (SCC, Process Info, Locations/Methods).
- Test Data:** Run Data, Process Data, Tester DQ Assessment, Attachments, Completeness Check, Report Verification.
- Regulatory Agency Review:** Test Plan Review, Regulatory Field Observation Documentation, Regulatory Assessment of Supporting Documentation, Emissions Results, Comprehensive Regulatory Test Assessment.
- Printed Reports:** Select Report / Data Table, Administration (Help / Sys. Reports).
- Wood Heaters:** Wood Heater Application, Wood Heater Lab Data Entry, Wood Heater Summary Tables, Wood Heater Checklist, Wood Heater Attachments.

Below the main menu is a project management section with buttons: Select Project Data Set, Create New Project Data Set, Save Project Data Set As, and Compact Project Data Set. A message states: 'No Project Data Set Selected... Please Select or Create a new Project Data Set by selecting the buttons above'.

At the bottom, the 'Project Submittal History' section includes a 'Create ERT Submission Package File' button and a large empty table area.

- Industry fills out ERT file (spreadsheet templates can be used to import data)
- Submits file to CEDRI
- Files can be reviewed by delegated authorities; released to WebFIRE after 60 days
- Data are used to create emission factors

Step 3: Upload to CEDRI



What is the Compliance and Emissions Data Reporting Interface (CEDRI)?

- A system where affected sources can electronically submit performance test reports, notification reports, and periodic reports
 - CEDRI accepts reports for 40 CFR Parts 52, 59, 60, 62 and 63
 - CEDRI also accepts reports for 40 CFR Parts 49, 70 and 71
 - Notification and periodic reports have a processing time of 30 days while the performance test reports have a processing time of 60 days
- Accessed through the Central Data Exchange: <https://cdx.epa.gov/>

CEDRI Roles

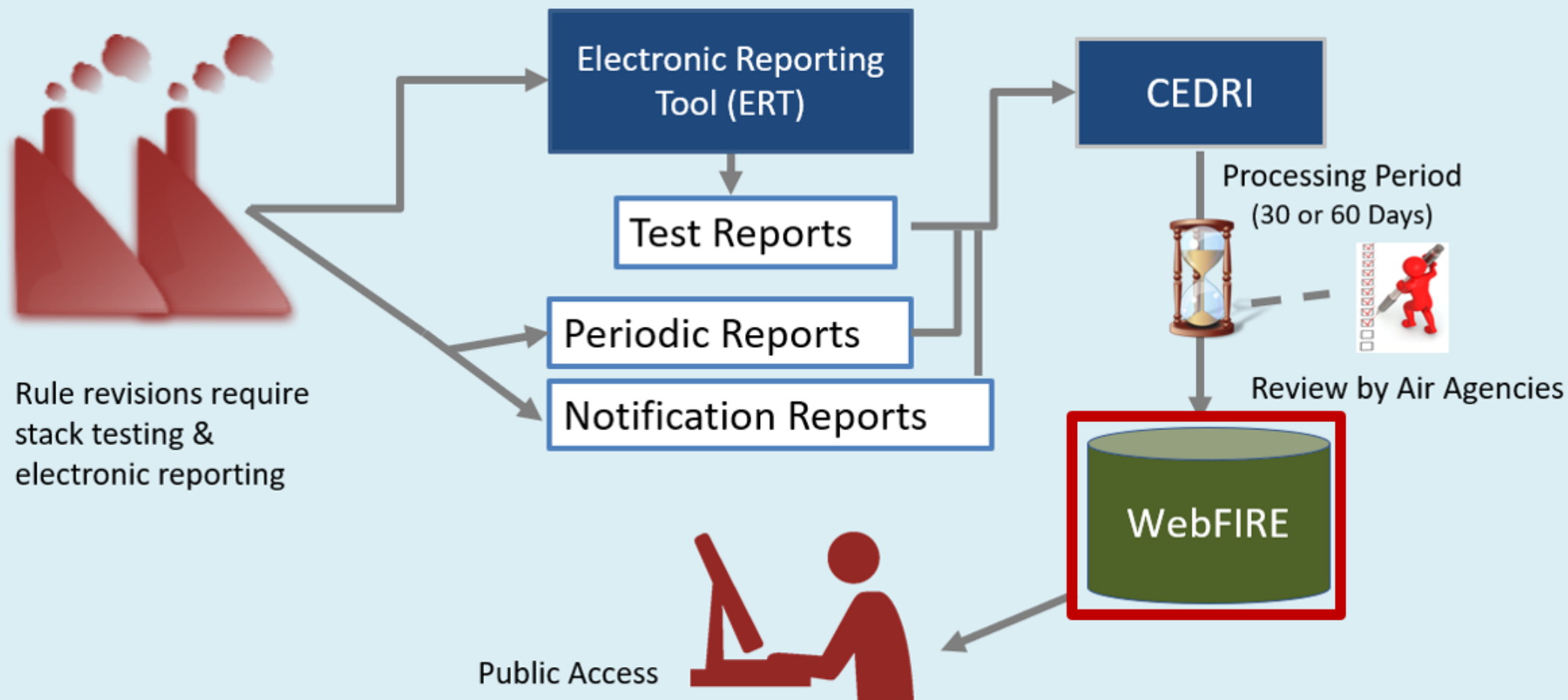
- Reporting Facilities
 - Preparer
 - Certifier/Delegated Certifier
- EPA Region/State/Local/Tribal Agencies
 - State Reviewer
 - EPA Regional Reviewer
- EPA Program Office Personal
 - EPA Rule Lead
 - EPA Reviewer
 - EPA HQ Reviewer

How do I register with CEDRI?

Reviewer Roles

- Register by sending an email to: cedri@epa.gov
- Include following information –
 - Role Requesting
 - EPA Region or State
 - First and Last Name
 - Organization Name
 - Email Address

Step 4: WebFIRE



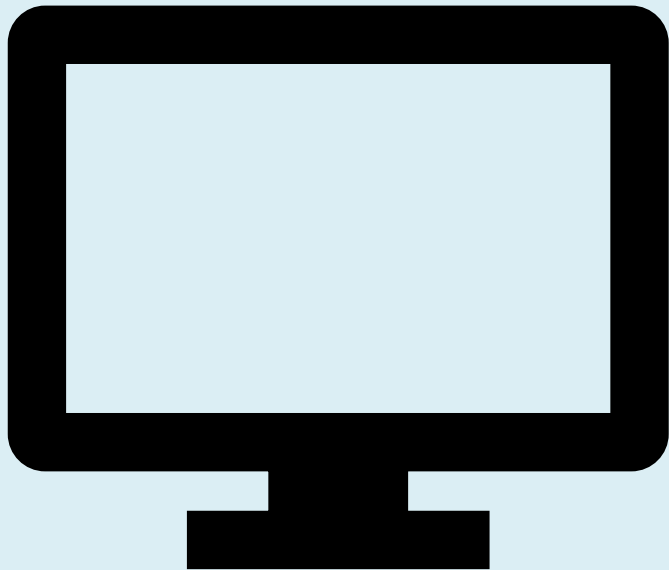
What is WebFIRE?

- 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 electronic reporting 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.

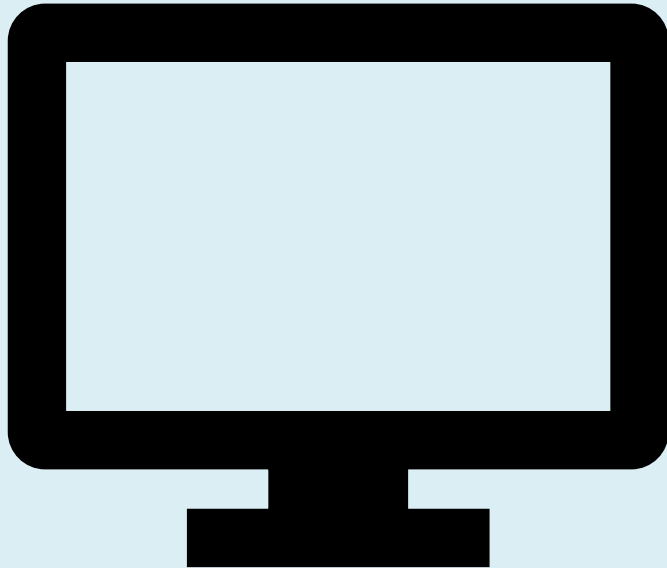
Live Action Example!

- We are going to follow a report from submission in CEDRI all the way to review
 - While we are in each system, we will also give a brief tour
- Example File:

Submission Information	
Report	63.1354(b)(11)(i)(C) Relative Accuracy Test Audit Data and Performance Test Data
Part/Subpart	63 LLL – Portland Cement
Facility	US EPA RESEARCH TRIANGLE PARK
Location	Durham, NC
Submission Date	7/24/2025 – 7:22 AM



Live Action Example



CEDRI Walkthrough

CDX Log In

 United States Environmental Protection Agency

[Home](#) [About](#) [Recent Announcements](#) [Terms and Conditions](#) [FAQ](#) [Help](#)

 **Central Data Exchange** [Contact Us](#)



Log in to CDX

User ID

[Next](#)

Forgot your User ID?
[Warning Notice and Privacy Policy](#)

[Register with CDX](#)

○ ○ ● ○ ○

||

Welcome

Welcome to the Environmental Protection Agency (EPA) Central Data Exchange (CDX) - the Agency's electronic reporting site. The Central Data Exchange concept has been defined as a central point which supplements EPA reporting systems by performing new and existing functions for receiving legally acceptable data in various formats, including consolidated and integrated data.

Enter CEDRI as Certifier

 **Central Data Exchange**

[Contact Us](#)
 Logged in as BRAY.CASEY ([Log out](#))

[MyCDX](#)
[Inbox](#)
[My Profile](#)
[Reg Maint](#)
[Role Sponsorship](#)
[Submission History](#)
[Payment History](#)

Services 

Status	Program Service Name	Role
	CEDRI: Compliance and Emissions Data Reporting Interface	Certifier
	CEDRI: Compliance and Emissions Data Reporting Interface	EPA HQ Reviewer
	CEDRI: Compliance and Emissions Data Reporting Interface	EPA Regional Reviewer
	CEDRI: Compliance and Emissions Data Reporting Interface	EPA Reviewer
	CEDRI: Compliance and Emissions Data Reporting Interface	EPA Rule Lead
	CEDRI: Compliance and Emissions Data Reporting Interface	Preparer
	CEDRI: Compliance and Emissions Data Reporting Interface	State Reviewer
	CEDRI1: Compliance and Emission Data Reporting Interface - Phase 1	Review Submission (EPA)
	HFC-ODS-R: Hydrofluorocarbon and Ozone Depleting Substances Reporting	EPA User

CDX Service Availability

[See the status for all program services](#)

News and Updates

No news/updates.

[Add Program Service](#)
[Manage Your Program Services](#)

CEDRI Home Page – Create a Report

MyCEDRI My Reports CEDRI History Manage Users

What would you like to do?

Create a Report

Create a new report.

Complete Reports Under Development

View and edit reports in progress.

View Submitted Reports

View, Revise, or Withdraw previously submitted reports.

Manage Facilities

Add, edit, or delete your facilities.

My Profile

[Manage My Profile](#)

Name
Casey Myers
CDX User Name
BRAY.CASEY
Email
myers.casey.b@epa.gov [Edit Email](#)

Role
Certifier

Users

[Manage Users](#)

Facility	Preparers	Certifiers
US EPA RESEARCH TRIANGLE PARK	Bernard McKee, Bob Schell, Gerri Garwood, Lee Daniel, Ketan Patel, Theresa Lowe	Casey Myers, Eric Goehl
US EPA ORD/RTP MAIN FACILITY	Casey Myers, Eric Goehl	Casey Myers
US EPA NATIONAL VEHICLE & FUEL EMISSIONS LABORATORY	No existing Preparers found.	Casey Myers, Eric Goehl

My Facilities

[My Facilities](#) [Add Facilities](#)

Manage Facilities (3 facilities managed)

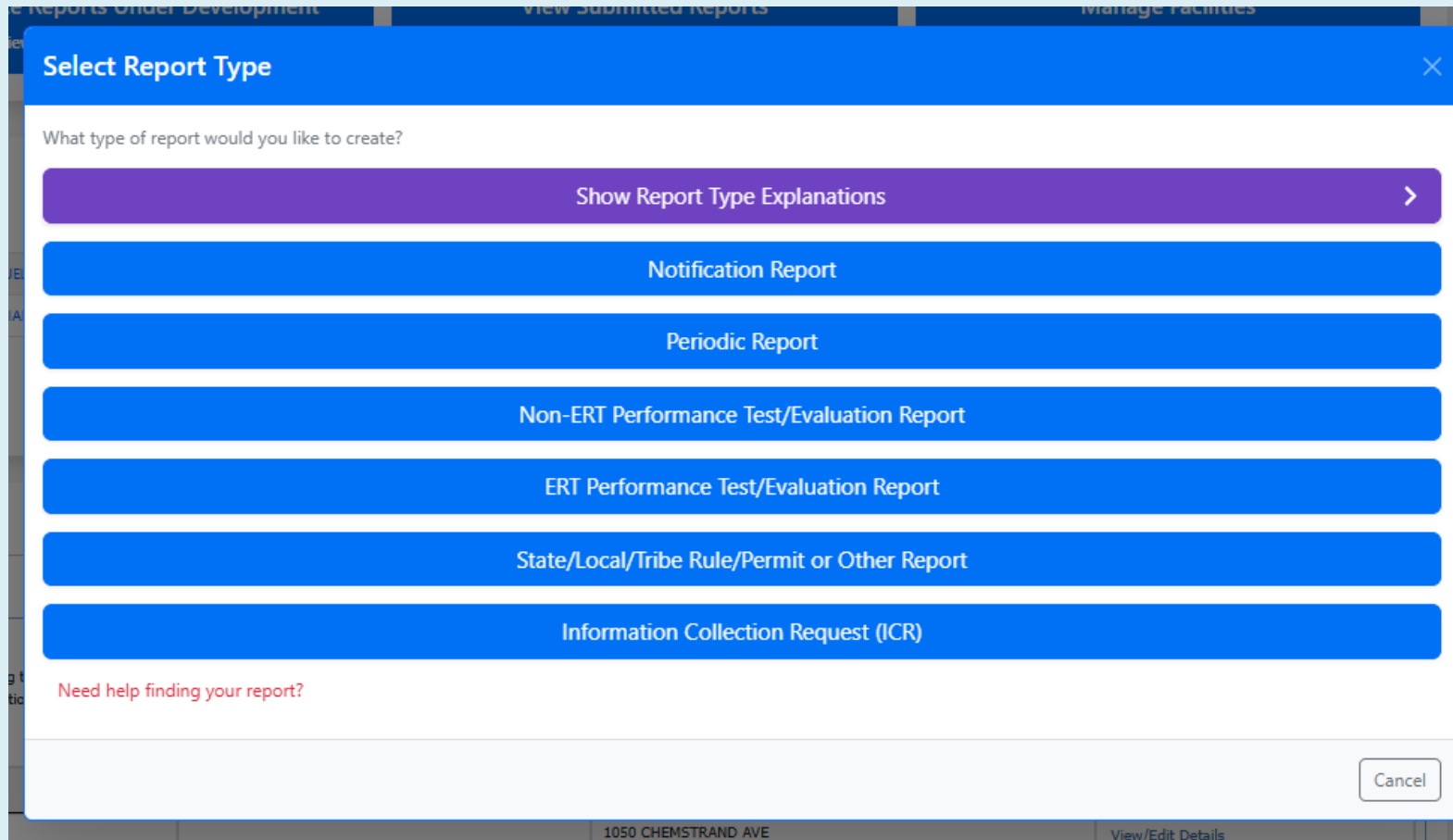
[List View](#) | [Map View](#)

The facilities selected for this data flow and role are listed below. You may add facilities by clicking the 'Add Facilities' button or tab. The ability to edit a facility and any sub-facility data is available from the 'Facility Details' screen which is accessible by clicking the 'Details' link for a facility in the table view or by clicking the 'Details' button on the map view. Please note that facilities with insufficient location information may not appear on the map view.

Filter:

EPA Registry ID	Program ID	Facility Name	Facility Address	
110000405464	CEDRI10111349	US EPA NATIONAL VEHICLE & FUEL EMISSIONS LABORATORY	2565 PLYMOUTH ROAD ANN ARBOR, MI 48105-2425 WASHTENAW	View/Edit Details Remove
110070834769	CEDRI111581	US EPA ORD/RTP MAIN FACILITY	109 TW ALEXANDER DR DURHAM, NC 27711 DURHAM COUNTY	View/Edit Details Remove
110070834769	CEDRI1898	US EPA RESEARCH TRIANGLE PARK	109 TW ALEXANDER DR DURHAM, NC 27713 DURHAM COUNTY	View/Edit Details Remove

Select Report Type – ERT Performance Test



The screenshot shows a web application interface with a modal dialog titled "Select Report Type". The dialog has a blue header bar with the title and a close button (X). Below the header, the text "What type of report would you like to create?" is displayed. There are seven blue buttons stacked vertically, each representing a report type: "Show Report Type Explanations" (with a right arrow), "Notification Report", "Periodic Report", "Non-ERT Performance Test/Evaluation Report", "ERT Performance Test/Evaluation Report", "State/Local/Tribe Rule/Permit or Other Report", and "Information Collection Request (ICR)". At the bottom left of the dialog, there is a link "Need help finding your report?". At the bottom right, there is a "Cancel" button. The background of the web application is partially visible, showing tabs for "Reports Under Development", "View Submitted Reports", and "Manage Facilities". At the very bottom of the page, there is a footer with the address "1050 CHEMSTRAND AVE" and a "View/Edit Details" link.

Select Report Type

What type of report would you like to create?

Show Report Type Explanations

Notification Report

Periodic Report

Non-ERT Performance Test/Evaluation Report

ERT Performance Test/Evaluation Report

State/Local/Tribe Rule/Permit or Other Report

Information Collection Request (ICR)

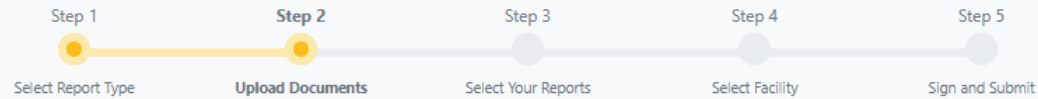
Need help finding your report?

Cancel

1050 CHEMSTRAND AVE

View/Edit Details

Upload Document



[< Return to Select Report Type](#) [Save and Return to My Reports](#) [Next: Select Your Reports >](#)

Step 2: Upload Documents

Performance test data must be submitted in a file format generated through the use of the EPA's latest Electronic Reporting Tool (ERT) or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the [EPA's ERT website](#). Upload your ERT or XML schema in the 'Upload' section below. If you are uploading an ERT, you must upload the ERT-generated ZIP file. If you are uploading an XML, without an ERT, you must upload a ZIP file containing the xml and supporting documentation. Use the 'Browse' button to locate your file, and the 'Upload' button to load it to CEDRI. [Read More...](#)

ERT Performance Report

Information

Report	ERT Performance Report - 40 CFR Subpart ERT - ERT Edit Report Name
Report Type	ERT Performance Report
Date Updated	Jul 24 2025 01:22:12 PM
Status	Under Development

Upload

File Upload * 

Choose File EPA Test 2021 RATA and PM Tests_07-22-2025_06-58_PKG.zip

Upload

EPA Test 2021 RATA and PM Tests_07-22-2025_06-58_PKG.zip

The acceptable file format(s) include: .zip

Select Your Report – Search

Step 1

Step 2

Step 3

Step 4

Step 5

Select Report Type

Upload Documents

Select Your Reports

Select Facility

Sign and Submit

< Return to Upload Documents

Save and Return to My Reports

Next: Select Facility >

Step 3: Select Your Reports

Search for Report(s) to Create

Need help finding your report?

Search Criteria

Sectors

Select options

Source Categories

Select options

Report Type

ERT Performance Report

Parts

Select options

Subparts

×

Subpart LLL - Portland Cement Manufacturing Ind

Report Names

Select options

1 Results (10 Required) 

Reset Search

Search for Reports

Select Your Report – Add Report

Step 1

Step 2

Step 3

Step 4

Step 5

Select Report Type

Upload Documents

Select Your Reports

Select Facility

Sign and Submit

< Return to Upload Documents

Save and Return to My Reports

Next: Select Facility >

Step 3: Select Your Reports

Search for Report(s) to Create

Need help finding your report?

Search Criteria

Report Type

- ERT Performance Report

Subpart

- Subpart LLL - Portland Cement Manufacturing Industry

New Search

Search Results

Select the report(s) you want to create.

Sector	Source Category	Report Type	Part	Subpart	Available Reports	Action
Mineral Processing	Cement Manufacturing	ERT Performance Report	Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories	Subpart LLL - Portland Cement Manufacturing Industry	63.1354(b)(11)(i)(C) Relative Accuracy Test Audit Data and Performance Test Data	Add

Select Facility

Step 1

Step 2

Step 3

Step 4

Step 5

Select Report Type

Upload Documents

Select Your Reports

Select Facility

Sign and Submit

< Return to Select Your Reports

Save and Return to My Reports

Next: Sign and Submit >

Step 4: Select Facility

63.1354(b)(11)(i)(C) Relative Accuracy Test Audit Data and Performance Test Data

Information

Report	63.1354(b)(11)(i)(C) Relative Accuracy Test Audit Data and Performance Test Data - Part 63 Subpart LLL - Portland Cement Manufacturing Industry Edit Report Name
Report Type	ERT Performance Report
Date Updated	Jul 24 2025 02:04:31 PM
Status	Under Development

Select Facility Submitting Your Report

Add Facility

EPA Registry ID	Program ID	Facility Name	Facility Address	Action
110006134691	CEDRI10040440	BASF FINA PETROCHEMICALS	7501 GULFWAY DR PORT ARTHUR, TX 77642-0301 JEFFERSON	Select
110055521190	CEDRI10041483	DOS HERMANOS COMPRESSOR STATION	28.097401N,-99.811034W CATARINA, TX 78836 DIMMIT	Select
110001480497	CEDRI10041305	FLYNT FABRICS & FINISHING INC	505 ENO STREET HILLSBOROUGH, NC 27278-2357 ORANGE	Select
110000405464	CEDRI10041482	U.S. EPA NATIONAL VEHICLE & FUEL EMISSIONS LABORATORY	2565 PLYMOUTH ROAD ANN ARBOR, MI 48105-2425 WASHTENAW	Select
110017335579	CEDRI10035000	US EPA REPRODUCTIVE TOXICOLOGY FACILITY	2525 E HWY 54 DURHAM, NC 27713 DURHAM	Select
110008055727	CEDRI1502	US EPA RESEARCH TRIANGLE PARK	87 TW ALEXANDER DR DURHAM, NC 27713 DURHAM COUNTY	Select
110007371637	CEDRI10040722	WASHINGTON 10 COMPRESSION STATION	12700 30 MILE ROAD ROME, MI 48065 MACOMB COUNTY	Select

Add Facility

Report63,1354(b)(11)(i)(C) Relative Accuracy Test Audit Data and Performance Test Data - Part 63 Subpart LLL - Portland Cement

Add Submitting Facility

Selected Facility

You have selected the following facility. To submit your report under this facility, please select 'Continue'.

EPA Registry ID	Program ID	Facility Name	Facility Address	Registered Certifiers	Registered Preparers
110008055727	CEDRI1502	US EPA RESEARCH TRIANGLE PARK	87 TW ALEXANDER DR DURHAM, NC 27713 DURHAM COUNTY	Casey Myers Colin Boswell Eric Goehl Eric Goehl	Casey Myers Test User Eric Goehl

Cancel

Continue

HILLSBOROUGH, NC 27278-2357
ORANGE

Certify Report

Please Confirm



I certify, under penalty of law, that this document and all attachments were prepared under my direction of supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

No

I Confirm

Select Facility Submitting Your Report

Add Facility

Submission Receipt

Submission Details

Print

Certifier Details

User ID	BRAY.CASEY
Name	Casey Myers
Email	myers.casey.b@epa.gov

Report Details (1 of 1)

Facility	US EPA RESEARCH TRIANGLE PARK
FRS ID	110008055727
State	NC
County	DURHAM COUNTY
Report Name	63.1354(b)(11)(i)(C) Relative Accuracy Test Audit Data and Performance Test Data
Certification Date	2025-07-24 14:09:05.032
CROMERR Activity ID	_10046ef5-cc74-4b3d-be64-b87ac1356ed2
CROMERR Document ID	
Format	File
Original Upload File Name	EPA Test 2021 RATA and PM Tests_07-22-2025_06-58_PKG.zip
Submission Status	Processing

Other Facilities Contained in Report

Facility Name	State	Address
US EPA	NC	Durham, NC 27709 Durham Co

Reviewer Role

- State Reviewer or Regional Reviewer

[Home](#)
[About](#)
[Recent Announcements](#)
[Terms and Conditions](#)
[FAQ](#)

CDX Central Data Exchange

[MyCDX](#)
[Inbox](#)
[My Profile](#)
[Reg Maint](#)
[Role Sponsorship](#)
[Submission His](#)

Services Manage

Status	Program Service Name	Role
	CEDRI: Compliance and Emissions Data Reporting Interface	Certifier
	CEDRI: Compliance and Emissions Data Reporting Interface	EPA HQ Reviewer
	CEDRI: Compliance and Emissions Data Reporting Interface	EPA Regional Reviewer
	CEDRI: Compliance and Emissions Data Reporting Interface	EPA Reviewer
	CEDRI: Compliance and Emissions Data Reporting Interface	EPA Rule Lead
	CEDRI: Compliance and Emissions Data Reporting Interface	Preparer
	CEDRI: Compliance and Emissions Data Reporting Interface	State Reviewer
	CEDRI1: Compliance and Emission Data Reporting Interface - Phase 1	Review Submission (EPA)
	HFC-ODS-R: Hydrofluorocarbon and Ozone Depleting Substances Reporting	EPA User

[Add Program Service](#)
[Manage Your Program Services](#)

CEDRI Homepage – View Submitted Reports

[MyCEDRI](#) [CEDRI History](#) [My Notifications](#) [Analytical Reports](#)

What would you like to do?

View Submitted Reports
View, Revise, or Withdraw previously submitted reports.

Manage eMail Notifications
Filter the email notifications you receive from CEDRI.

Manage Regulations
Manage reporting requirements for CEDRI reports.

View Analytical Reports
Analyze report data via Analytical Reports.

My Profile[Manage My Profile](#)

Name	Casey Myers	Role	Regional Reviewer
CDX User Name	BRAY.CASEY		
Email	myers.casey.b@epa.gov Edit Email		

My Regulations

Feature Coming Soon

CEDRI History

CEDRI History

Below are the recent CEDRI submissions that you have either certified electronically or have been submitted by another "Certifier" in your organization, listed by individual report. You may search for specific submissions by selecting "Add/View Filters". Filter the CEDRI History by selecting any of the filter categories: Date / Status / Report, Geography, Facility, and Sector / Rule. Click on any record in the CEDRI History table to see the report details, download associated files, and if necessary, Revise & Re-submit or Withdraw a report.

Download as Excel

Add/View Filters

Download Attachments

Certification Date	ReportId	Report	Part	Subpart	Subpart Name	Facility	County	State	Format	Status
2025-07-24 14:09:05	180526	63.1354(b)(1)(i)(C) Relative Accuracy Test Audit Data and Performance Test Data	63	LLL	Portland Cement Manufacturing Industry	US EPA RESEARCH TRIANGLE PARK	DURHAM COUNTY	NC	File	In WebFIRE
2025-07-24 07:22:03	180469	63.1354(b)(1)(i)(C) Relative Accuracy Test Audit Data and Performance Test Data	63	LLL	Portland Cement Manufacturing Industry	US EPA RESEARCH TRIANGLE PARK	DURHAM COUNTY	NC	File	In WebFIRE
2024-11-27 10:54:38	178031	63.11225(e)(1) Results of the Performance Tests	63	JJJJJ	Industrial, Commercial, and Institutional Boilers Area Sources	HOWARD JOHNSON'S/CRABTREE VALLEY		NC	File	In WebFIRE
2024-11-27 10:44:09	178422	Multiple	Multiple	Multiple	Multiple	RHODIA INC. - HS&E CORPORATE SERVICES TOXICOLOGY DEPARTMENT	WAKE	NC	File	In WebFIRE
2024-11-25 13:45:28	178429	Notification Report	60	AAAA	Small Municipal Waste Combustion Units Commenced after 8/30/1999 or Modifications/Reconstruction after 6/6/2001	US EPA RESEARCH TRIANGLE PARK	DURHAM COUNTY	NC	File	In WebFIRE
2024-11-21 13:24:37	178467	3276 60 JJ RN	60	JJJ	Petroleum Dry Cleaners	4465 FIRE STATION #9	WAKE	NC	File	In WebFIRE
2024-11-14 16:53:33	178409	Non-ERT Performance Report	63	BB	Phosphate Fertilizers Production Plants	4465 FIRE STATION #9	WAKE	NC	File	In WebFIRE
2024-11-01 15:25:14	144019	63.11225(a)(4)(vi) Notification of Compliance Status	63	JJJJJ	Industrial, Commercial, and Institutional Boilers Area Sources	111 E. DRAKE ROAD	LARIMER COUNTY	TN	Spreadsheet	In WebFIRE
2024-09-26 08:48:12	178114	60.5420a(b) Annual Report (Spreadsheet Template)	60	OOOOa	Crude Oil and Natural Gas Facilities for which Construction, Modification, or Reconstruction Commenced after 9/18/2015	ACADIANA AIRCRAFT SERVICES LLC	ACADIA PARISH	AL, CT, GA, NC, VA, WV	Spreadsheet	In WebFIRE
2024-08-29 09:17:57	177941	63.6650 Semiannual and Annual Report	63	ZZZZ	Stationary Reciprocating Internal Combustion Engines	ACADIANA AIRCRAFT SERVICES LLC	ACADIA PARISH	AL	Spreadsheet	In WebFIRE

Download as Excel

Showing 1 to 10 of 541 entries

Show 10 entries

Previous 1 2 3 4 5 ... 55 Next



Filters

Date / Status / Report

Geography

Facility

Sector / Rule

Date / Status / Report Filters

Start Date

mm/dd/yyyy

End Date

mm/dd/yyyy

Status

Select options

CROMERR Activity ID ⓘ

Ex: _12345678-abcd-9012-efgh-345678901234

CROMERR Document ID ⓘ

Ex: 12345678-abcd-9012-efgh-345678901234

Has Report Been Reviewed? ⓘ

Select option

Has Report Been Pushed Back? ⓘ

Select option

Geography Filters

State

Select options

County

Select options

Facility Filters ⓘ

Facility ID

Ex: 110020047894 or CEDRI10243661

Facility Name

Select options

State Facility Id

Select options

Sector / Rule Filters

Sector

Select options

Source Category

Select options

Part

Select options

Subpart

Select options

OMB Control Number

Select options

Report Type

Select options

Report Name

Select options

Format

Select options

Download as Excel ⓘ

Apply Filters

Hide Filters

Filter by Part/Subpart

What would you like to filter by? 

Date / Status / Report Geography Facility **Sector / Rule**

Sector / Rule Filters

Part: Part 63 Subpart: Subpart LLL

Sector
Select options

Source Category
Select options

Part
× Part 63 ×
Part 60
Part 62
Part 63

Subpart
× Subpart LLL ×

Report Name
Select options

OMB Control Number
Select options

Format
Select options

Search Results

What would you like to filter by? [?](#)

[Apply Filters](#)
[Clear Filters](#)
[Hide Filters](#)

[Date / Status / Report](#)
[Geography](#)
[Facility](#)
[Sector / Rule](#)

Sector / Rule Filters

[Part: Part 63](#)
[Subpart: Subpart LLL](#)

Sector:
 Source Category:

Part:
 Subpart:
 OMB Control Number:

Report Type:
 Report Name:
 Format:

[Download as Excel](#)
[Filters:](#) [Part: Part 63](#) [Subpart: Subpart LLL](#)
[Apply Filters](#)
[Clear Filters](#)
[Hide Filters](#)

[Download Attachments](#)

Certification Date	ReportId	Report	Part	Subpart	Subpart Name	Facility	County	State	Format	Status
2025-07-24 14:09:05	180626	63.1354(b)(11)(i)(C) Relative Accuracy Test Audit Data and Performance Test Data	63	LLL	Portland Cement Manufacturing Industry	US EPA RESEARCH TRIANGLE PARK	DURHAM COUNTY	NC	File	In WebFIRE
2025-07-24 07:22:03	180469	63.1354(b)(11)(i)(C) Relative Accuracy Test Audit Data and Performance Test Data	63	LLL	Portland Cement Manufacturing Industry	US EPA RESEARCH TRIANGLE PARK	DURHAM COUNTY	NC	File	In WebFIRE
2023-06-29 13:52:36	171723	63.1354(b)(8) Excess emissions and continuous emission monitoring system performance report and 63.1354(b) (9) Summary Report (Version 2.01)	63	LLL	Portland Cement Manufacturing Industry	BUZZ ALDRIN ELEMENTARY SCHOOL	FAIRFAX COUNTY	AL	Spreadsheet	In WebFIRE
2023-04-26 12:46:09	170906	63.1354(b)(8) Excess emissions and continuous emission monitoring system performance report and 63.1354(b) (9) Summary Report (Version 2.01)	63	LLL	Portland Cement Manufacturing Industry	4000 TEST FACILITY	LOUDOUN COUNTY	AL, AS, AZ, CA, CO, FL, GA, MT, SC	Spreadsheet	In WebFIRE
2023-04-14 15:43:02	170724	63.1354(b)(8) Excess emissions and continuous emission monitoring system performance report and 63.1354(b) (9) Summary Report (Version 2.01)	63	LLL	Portland Cement Manufacturing Industry	4000 TEST FACILITY	LOUDOUN COUNTY	AL, AS, AZ, CA, CO, FL, GA, MT, SC	Spreadsheet	In WebFIRE
2023-03-30 14:00:03	170528	63.1354(b)(8) Excess emissions and continuous emission monitoring system performance report and 63.1354(b) (9) Summary Report (Version 2.01)	63	LLL	Portland Cement Manufacturing Industry	AL'S PAINT & BODY SHOP	ST. LANDRY	AL	Spreadsheet	In WebFIRE
2023-03-30 11:55:51	170511	63.1354(b)(8) Excess emissions and continuous emission monitoring system performance report and 63.1354(b) (9) Summary Report (Version 2.01)	63	LLL	Portland Cement Manufacturing Industry	APACALABAMA, INC.(OLD REPUBLIC STEEL SITE)	JEFFERSON	AL	Spreadsheet	In WebFIRE
2023-03-29 16:20:14	170470	63.1354(b)(8) Excess emissions and continuous emission monitoring system performance report and 63.1354(b) (9) Summary Report (Version 2.01)	63	LLL	Portland Cement Manufacturing Industry	CITGO CORPUS CHRISTI REFINERY		AL	Spreadsheet	In WebFIRE
2023-03-29 16:18:51	170443	63.1354(b)(8) Excess emissions and continuous emission monitoring system performance report and 63.1354(b) (9) Summary Report (Version 2.01)	63	LLL	Portland Cement Manufacturing Industry	ALPINE ENERGY, INC.	ST. LANDRY PARISH	AL	Spreadsheet	In WebFIRE
2023-03-29 16:17:42	170431	63.1354(b)(8) Excess emissions and continuous emission monitoring system performance report and 63.1354(b) (9) Summary Report (Version 2.01)	63	LLL	Portland Cement Manufacturing Industry	ANR PIPELINE-EUNICE		AL	Spreadsheet	In WebFIRE

[Download as Excel](#)
 Showing 1 to 10 of 19 entries
 [Show 10 entries](#)
[Previous](#)
[1](#)
[2](#)
[Next](#)

Report Details

- Can download report, mark as reviewed and push the report back to the facility

[<](#)
Report Details

Push Back Report

63.1354(b)(11)(i)(C) Relative Accuracy Test Audit Data and Performance Test Data for US EPA RESEARCH TRIANGLE PARK

Documents

Download All

Mark as Reviewed

Name	Size (kb)	Date Archived
EPA Test 2021 RATA and PM Tests_07-22-2025_06-58_PKG.zip	16676	2025-07-24 07:22:40

Report

Facility

Certifier

Revisions

Report Submission Information

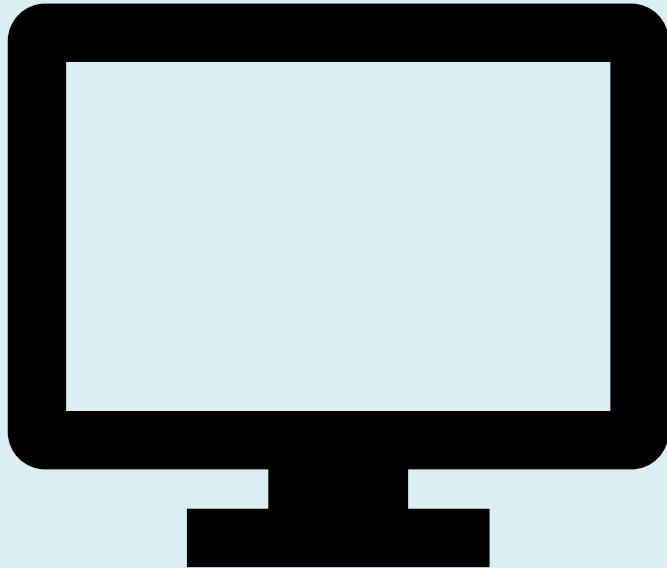
Report Status	In WebFIRE
Certification Date	2025-07-24 07:22:03
Available in WebFIRE	2025-07-24
CROMERR Activity ID	_8e4dc9ed-3148-447e-8c25-62b5776353bc
CROMERR Document ID	245da44b-d3f3-4408-968d-4b334f0bf788

Report Type Information

Report Name	63.1354(b)(11)(i)(C) Relative Accuracy Test Audit Data and Performance Test Data
Citation	63.1354(b)(11)(i)(C) - Part 63 Subpart LLL - Portland Cement Manufacturing Industry
Report Type	ERT Performance Report
Format	File

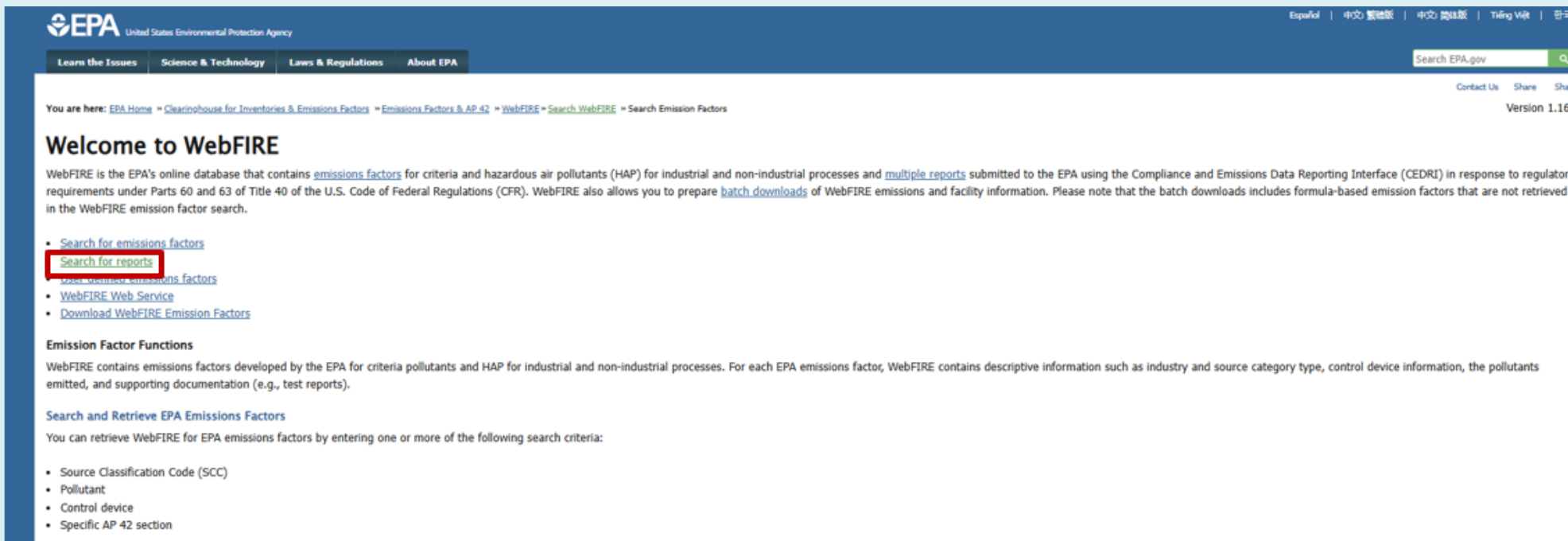
Question Check 1

Break #1



WebFIRE Walkthrough

WebFIRE Homepage



The screenshot shows the WebFIRE homepage with the EPA logo and navigation menu at the top. The main content area includes a breadcrumb trail, a welcome message, a list of links, and information about emission factor functions and search criteria. The link 'Search for reports' is highlighted with a red box.

EPA United States Environmental Protection Agency

Learn the Issues | Science & Technology | Laws & Regulations | About EPA

Search EPA.gov

Spanish | 中文 繁體版 | 中文 簡體版 | Tiếng Việt | 한국어

Contact Us | Share | Share

Version 1.16.0

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 prepare [batch downloads](#) of WebFIRE emissions and facility information. Please note that the batch downloads includes formula-based emission factors that are not retrieved in the WebFIRE emission factor search.

- [Search for emissions factors](#)
- [Search for reports](#)
- [Search for multiple emissions factors](#)
- [WebFIRE Web Service](#)
- [Download WebFIRE Emission Factors](#)

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 retrieve WebFIRE for EPA emissions factors by entering one or more of the following search criteria:

- Source Classification Code (SCC)
- Pollutant
- Control device
- Specific AP 42 section

Select Report Type

You are here: [EPA Home](#) » [Clearinghouse for Inventories & Emissions Factors](#) » [Emissions Factors & AP 42](#) » [WebFIRE](#) » [Search WebFIRE](#) » Search Emission Factors

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 Criteria

You are here: [EPA Home](#) » [Clearinghouse for Inventories & Emissions Factors](#) » [Emissions Factors & AP 42](#) » [WebFIRE](#) » [Search WebFIRE](#)

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 a criterion to retrieve the relevant reports from WebFIRE.

Search Criteria for All Reports

- › Submitting Organization and/or Facility Name
- › 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](#)

Search Criteria (pt 2)

- Search based on Date

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, retrieve the relevant reports from WebFIRE.

Search Criteria for Performance Test Reports

▸ Submitting Organization and/or Facility Name

▾ CEDRI Submission Date

Start Date

(MM/DD/YYYY)

End Date

(MM/DD/YYYY)

▸ 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

Search Criteria (pt 3)

- Search based on Date
- Search based on Part/Subpart

You are here: [EPA Home](#) » [Clearinghouse for Inventories & Emissions Factors](#) » [Emissions Factors & AP 42](#) » [WebFIRE](#) » [Search WebFIRE](#)

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, retrieve the relevant reports from WebFIRE.

Search Criteria for All Reports

▶ Submitting Organization and/or Facility Name

▶ CEDRI Submission Date

▶ Facility Location

▼ Regulatory Part and Subpart

CFR Part

- All
- Part 60 - NSPS
- Part 62 - Federal Plan
- Part 63 - NESHAP

(Control-Click for multiple selections)

CFR Subpart

- NESHAP-KKKK: Metal Can Manufacturing Surface Coating
- NESHAP-KKKK: Clay Ceramics Manufacturing
- NESHAP-L: Coke Oven Batteries
- NESHAP-LL: Primary Aluminum Reduction Plants
- NESHAP-LLL: Portland Cement Manufacturing Industry
- NESHAP-LLLL: Asphalt Processing and Asphalt Roofing Manufacturing
- NESHAP-LLLLL: Acrylic and Modacrylic Fibers Production (Area Sources)
- NESHAP-M: Perchloroethylene Dry Cleaning Facilities
- NESHAP-MM: Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichem
- NESHAP-MMM: Pesticide Active Ingredient Production

(Control-Click for multiple selections)

Report Search Results

Report Search Results

Counts: 10

Show 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
EPA	US EPA RESEARCH TRIANGLE PARK	DURHAM	NC	DURHAM COUNTY	2025-07-24 07:22:03.246	ST	ERT	Filterable Particulate	BAGHOUSE; LOW NOX BURNERS		No Attachments	☐	☐
EPA	US EPA RESEARCH TRIANGLE PARK	DURHAM	NC	DURHAM COUNTY	2025-07-24 07:22:03.246	ST	ERT	Oxygen	BAGHOUSE; LOW NOX BURNERS		No Attachments	☐	☐
EPA	US EPA RESEARCH TRIANGLE PARK	DURHAM	NC	DURHAM COUNTY	2025-07-24 14:09:05.032	ST	ERT	Filterable Particulate	BAGHOUSE; LOW NOX BURNERS		No Attachments	☐	☐
EPA	US EPA RESEARCH TRIANGLE PARK	DURHAM	NC	DURHAM COUNTY	2025-07-24 07:22:03.246	ST	ERT	Filterable Particulate	BAGHOUSE		No Attachments	☐	☐
EPA	US EPA RESEARCH TRIANGLE PARK	DURHAM	NC	DURHAM COUNTY	2025-07-24 14:09:05.032	ST	ERT	Oxygen	BAGHOUSE; LOW NOX BURNERS		No Attachments	☐	☐
EPA	US EPA RESEARCH TRIANGLE PARK	DURHAM	NC	DURHAM COUNTY	2025-07-24 14:09:05.032	ST	ERT	Total organic compounds (TOC) as Propane	BAGHOUSE; LOW NOX BURNERS		No Attachments	☐	☐
EPA	US EPA RESEARCH TRIANGLE PARK	DURHAM	NC	DURHAM COUNTY	2025-07-24 14:09:05.032	ST	ERT	Mercury	BAGHOUSE; LOW NOX BURNERS		No Attachments	☐	☐
EPA	US EPA RESEARCH TRIANGLE PARK	DURHAM	NC	DURHAM COUNTY	2025-07-24 07:22:03.246	ST	ERT	Total organic compounds (TOC) as Propane	BAGHOUSE; LOW NOX BURNERS		No Attachments	☐	☐
EPA	US EPA RESEARCH TRIANGLE PARK	DURHAM	NC	DURHAM COUNTY	2025-07-24 14:09:05.032	ST	ERT	Filterable Particulate	BAGHOUSE		No Attachments	☐	☐
EPA	US EPA RESEARCH TRIANGLE PARK	DURHAM	NC	DURHAM COUNTY	2025-07-24 07:22:03.246	ST	ERT	Mercury	BAGHOUSE; LOW NOX BURNERS		No Attachments	☐	☐
All 	All 	All 	All 	All 	All 	All 	All 	All 	All 				

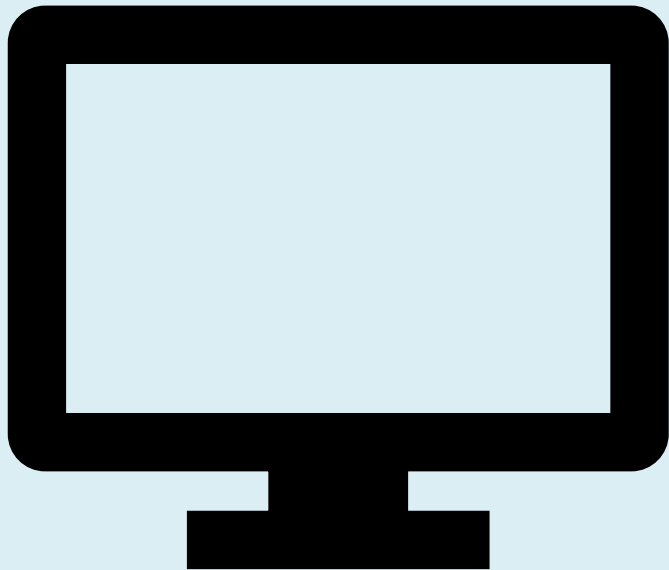
Showing 1 to 10 of 10 entries

Previous Next

[Bulk Download Selected Reports and/or CSV File](#)

You can refine the reports displayed in the search results table using one or more of the drop-down menus located at the bottom of the table. For example, to display reports for particular facility, click on the down arrow in the drop-down menu below the "Facility" column and click on the facility.

Question Check 2



ERT Walkthrough

Reviewing ERT Files

- Obtain ERT and ERT project data set file
 - Download ERT application from ERT Webpage - <https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>
 - Download ERT file from CEDRI or WebFIRE

> ERT7_6-23-25.zip Search ERT7_6-23-25.zip



 Sort  View  Extract all 
 Details

Name	Type	Compress...	Password ...	Size	Ratio	Date modified
 Electronic Reporting Tool v7 User ...	Adobe Acrobat Document	6,874 KB	No	8,274 KB	17%	6/23/2025 5:42 PM
 ERT7_6-23-25.Accdb	Microsoft Access Database	3,628 KB	No	27,244 KB	87%	6/23/2025 5:41 PM

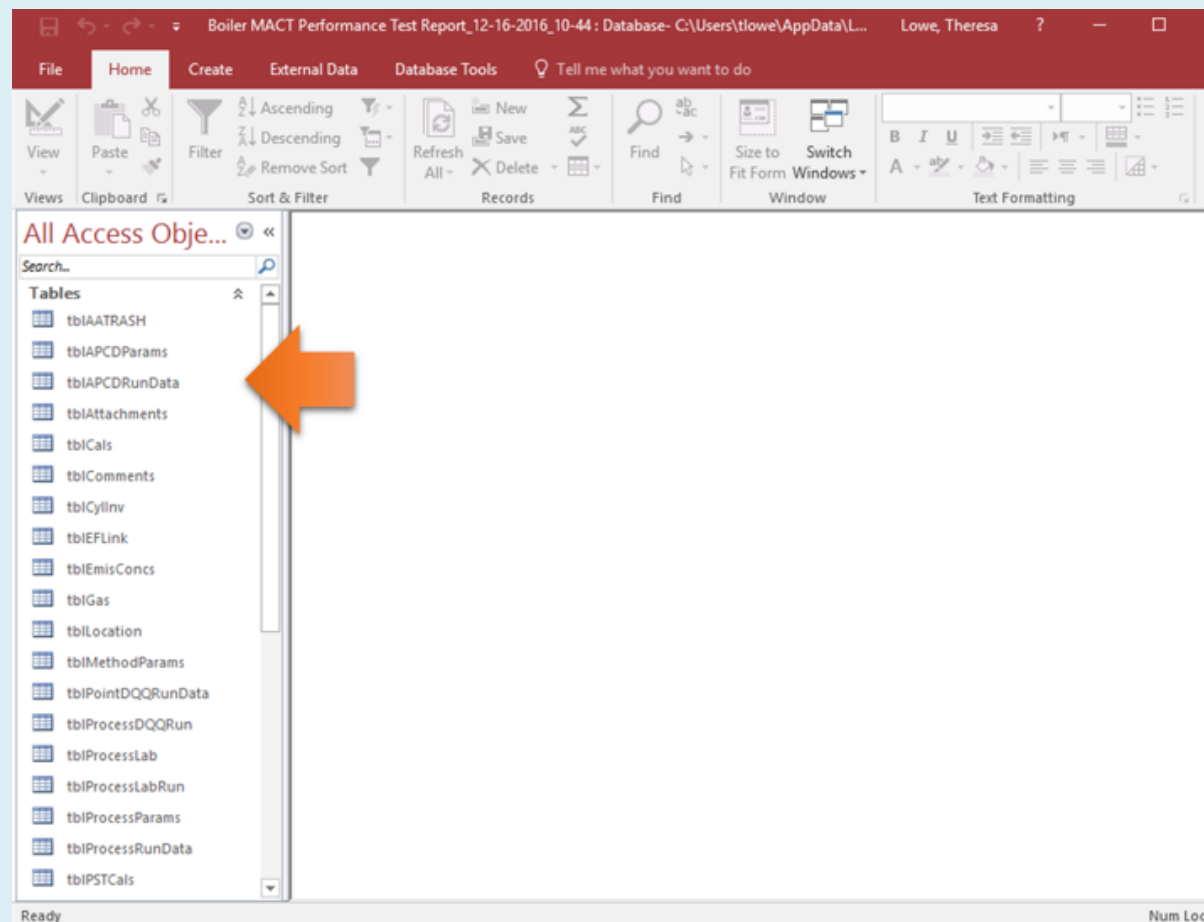
EPA Test 2021 RATA and PM Tests_07-22-2025_06-58_PKG.zip Search EPA Test 2021 RATA and PM Tes


 Sort  View  Extract all 
 Details

Name	Type	Compress...	Password ...	Size	Ratio	Date modified
 EPA Test 2021 RATA and PM Tests_0...	XML File	29 KB	No	355 KB	93%	7/22/2025 6:58 AM
 EPA Test 2021 RATA and PM Tests_0...	Compressed (zipped) Folder	16,648 KB	No	16,648 KB	0%	7/22/2025 6:59 AM



ERT Data File Opened Outside Of The ERT Application



XML File

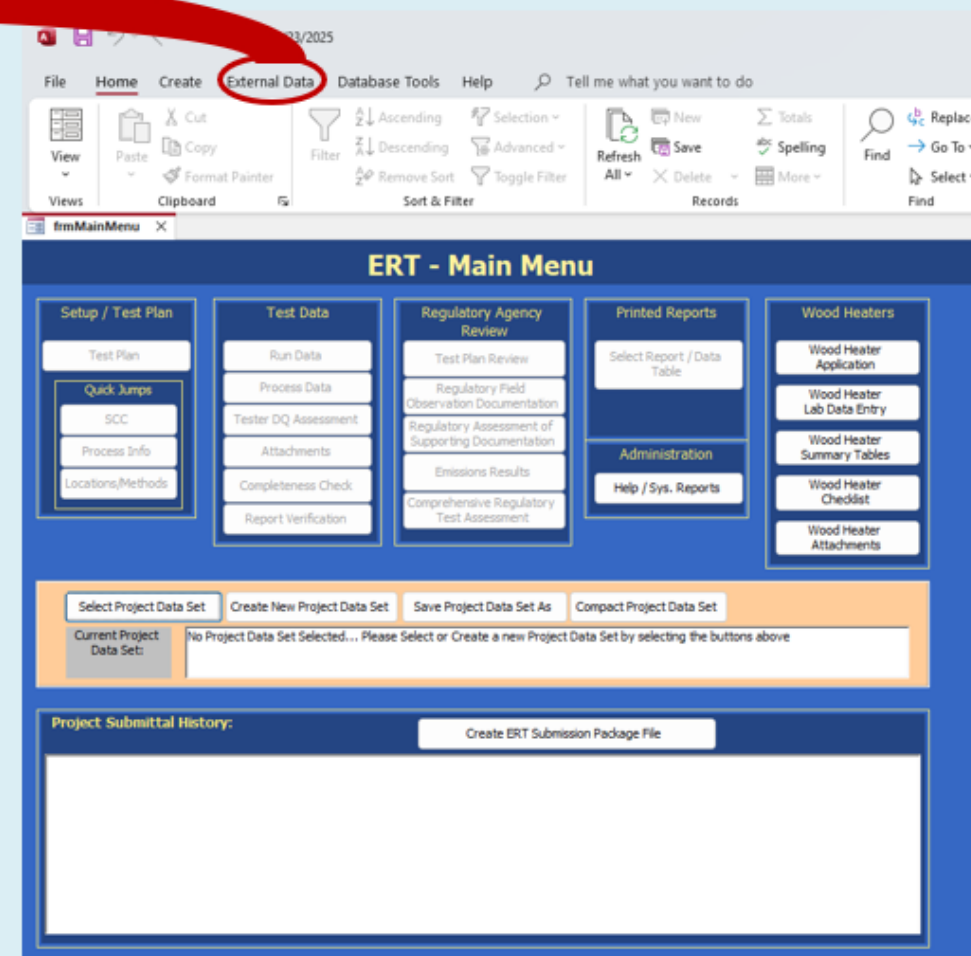
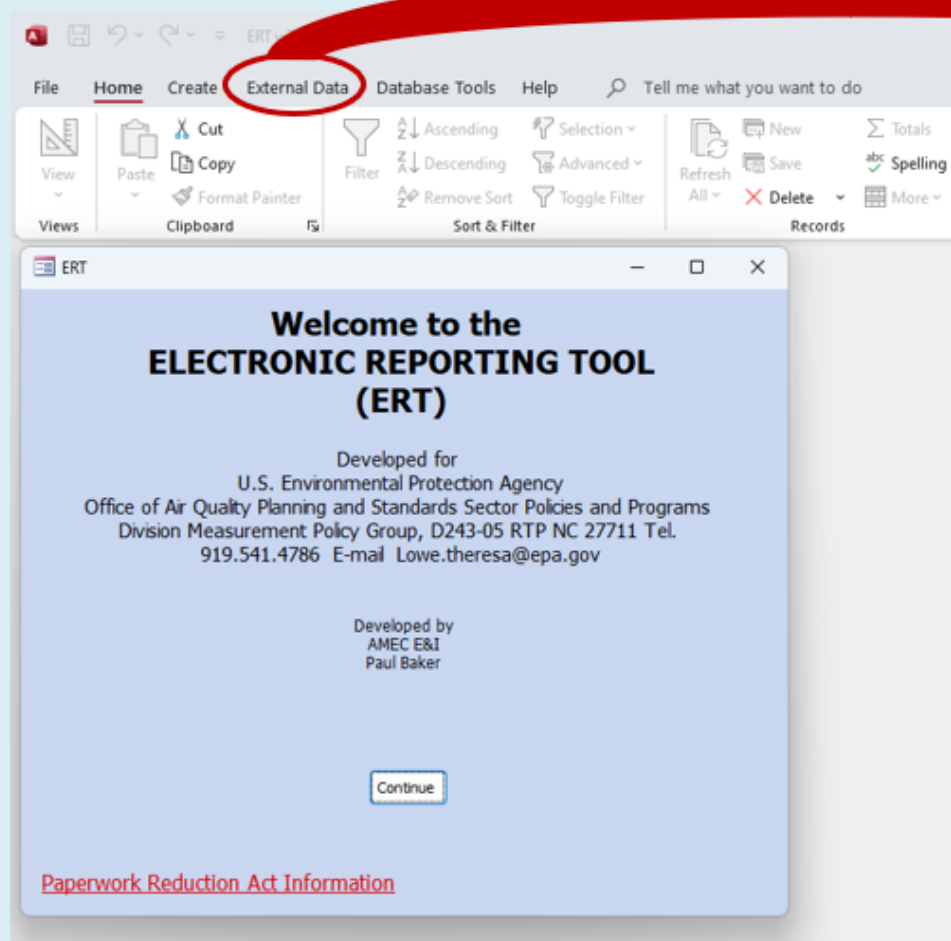
```

EPA Test 2021 RATA and PM Tests_
File Edit View
<?xml version="1.0" encoding="UTF-8"?>
<dataroot xmlns:od="urn:schemas-microsoft-com:officedata" generated="2025-07-22T06:58:49">
<tblTestPlan>
<TestPlanID>1</TestPlanID>
<TestPlanDate>2021-07-13T00:00:00</TestPlanDate>
<TestPlanTitle>EPA Test 2021 RATA and PM Tests</TestPlanTitle>
<FacName>US EPA</FacName>
<FacAddress1>109 TW Alexander Drive</FacAddress1>
<FacCity>Durham</FacCity>
<FacCounty>Durham Co</FacCounty>
<FacState>NC</FacState>
<FacZip>27709</FacZip>
<FacPOC>Casey Myers</FacPOC>
<FacPhone>(919) 541-0061</FacPhone>
<FacEmail>myers.casey.b@epa.gov</FacEmail>
<FacIndustryType>327310</FacIndustryType>
<FINS>110012414128</FINS>
<FacLatitude>41.06330</FacLatitude>
<FacLongitude>-111.53170</FacLongitude>
<TestCoName>EG Testing</TestCoName>
<TestCoAddress1>123 Main Street</TestCoAddress1>
<TestCoCity>Durham</TestCoCity>
<TestCoState>NC</TestCoState>
<TestCoZip>12345</TestCoZip>
<TestCoPOC>Eric Goehl</TestCoPOC>
<TestCoPhone>(919) 541-0101</TestCoPhone>
<TestCoEmail>goehl.eric@epa.gov</TestCoEmail>
<AirPermitNumber>2900001003</AirPermitNumber>
<PermittedSourceName>10007</PermittedSourceName>
<PermittedSourceID>AIRS ID</PermittedSourceID>
<PermittedMaxProcessRate>930,000 tons per year of clinker</PermittedMaxProcessRate>
<SourceDesc> The Devils Slide kiln is a 5 stage preheater style kiln with an average clinker production rate of
2300 TPD. Although the majority of limestone needed is mined in the onsite quarry, limestone
and other raw materials are also received from offsite sources and stored for processing. Raw
materials are fed into the raw mill for grinding into kiln feed. Kiln feed is fed into the kiln where it
undergoes physical and chemical changes during the heating process to form clinker. The kiln is
fueled by a variety of fuels such as Coal, Petcoke, TDF, DDF, Natural Gas and other Non-
Hazardous materials. The clinker is discharged from the kiln to the clinker cooler where it is
cooled, and then conveyed into clinker storage silos. The kiln and clinker cooler exhausts are
routed though individual baghouses before being discharged into the atmosphere. From the
clinker storage silos, clinker is conveyed to the finish mills where Gypsum and other additives are
finely ground together to form cement. The finish product is then transferred to cement storage
silos for distribution to customers.</SourceDesc>
<TestInAccordanceYN>0</TestInAccordanceYN>
<TestInAccordanceDesc>Because the ERT does not support EPA Method 320, wet RATAs or volumetric flows, this data was not entered into the ERT report file.
Please find the complete RATA results in the attached report "M212812A" and "M212812B".</TestInAccordanceDesc>
<MeetMinReqYN>1</MeetMinReqYN>
<MeetMinReq>Documentation for all sources measured is attached.</MeetMinReq>

```



Import An XML File

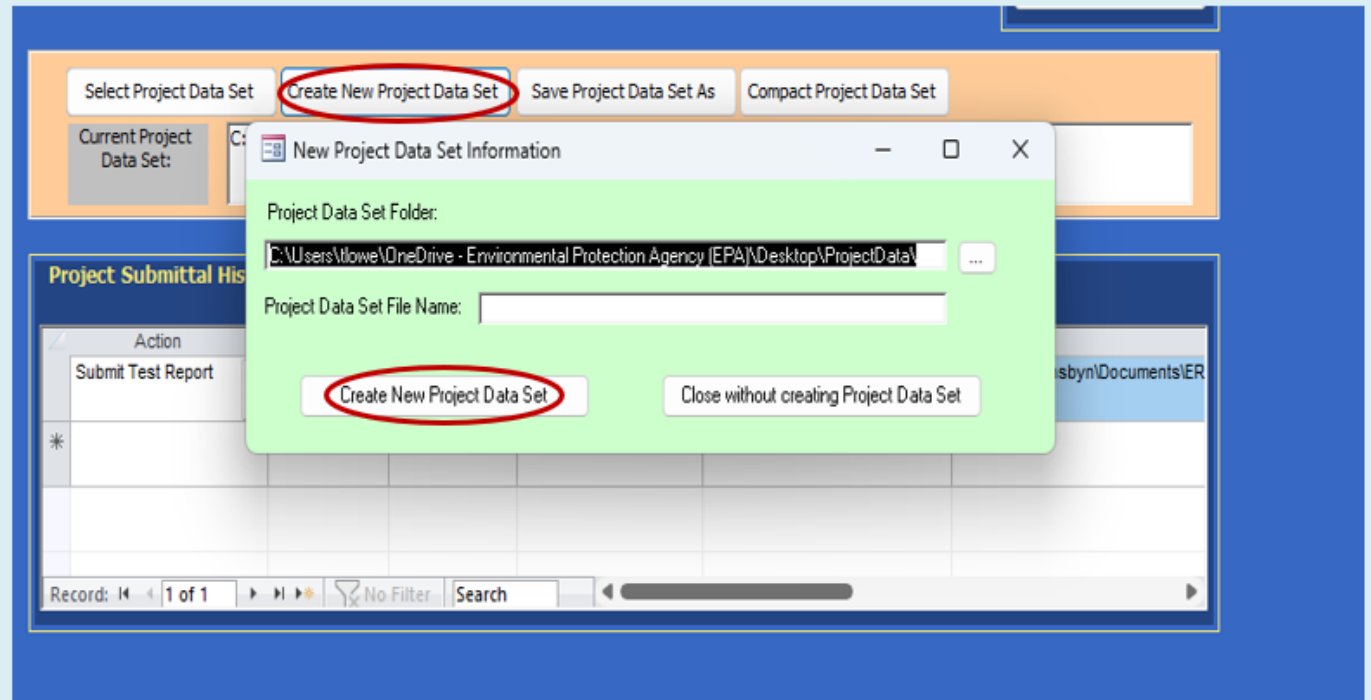


Create A New Project Data Set

On the Main Menu, select
Create New Project Data
Set

Add Project Data Set File
Name

Select Create New Project
Data Set



The screenshot shows the EPA Project Data Set creation interface. The 'Create New Project Data Set' button is circled in red. A modal window titled 'New Project Data Set Information' is open, showing fields for 'Project Data Set Folder' (C:\Users\llove\OneDrive - Environmental Protection Agency (EPA)\Desktop\ProjectData\), 'Project Data Set File Name', and buttons for 'Create New Project Data Set' (circled in red) and 'Close without creating Project Data Set'.



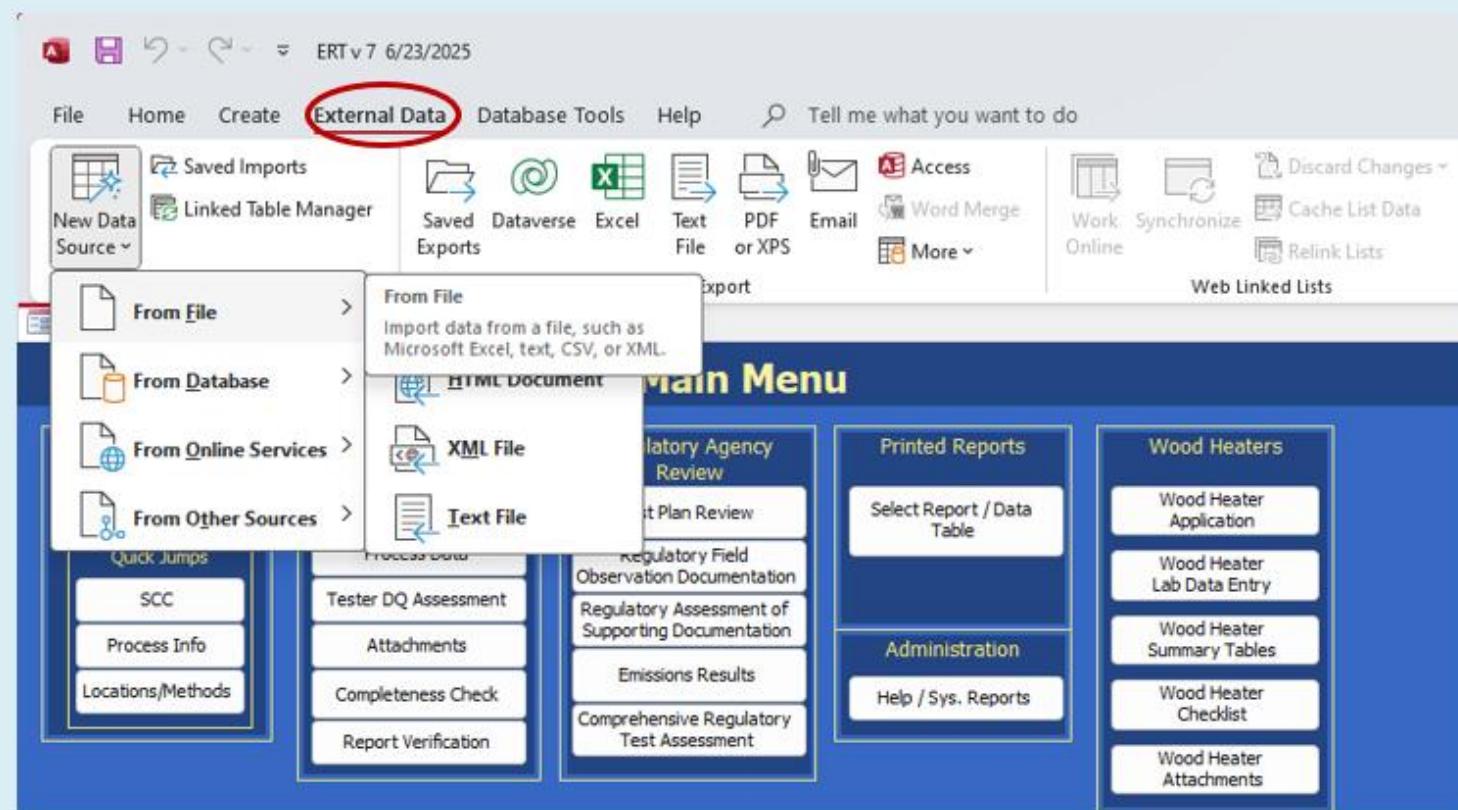
Steps To Import An XML File

Step 1. Select External Data.

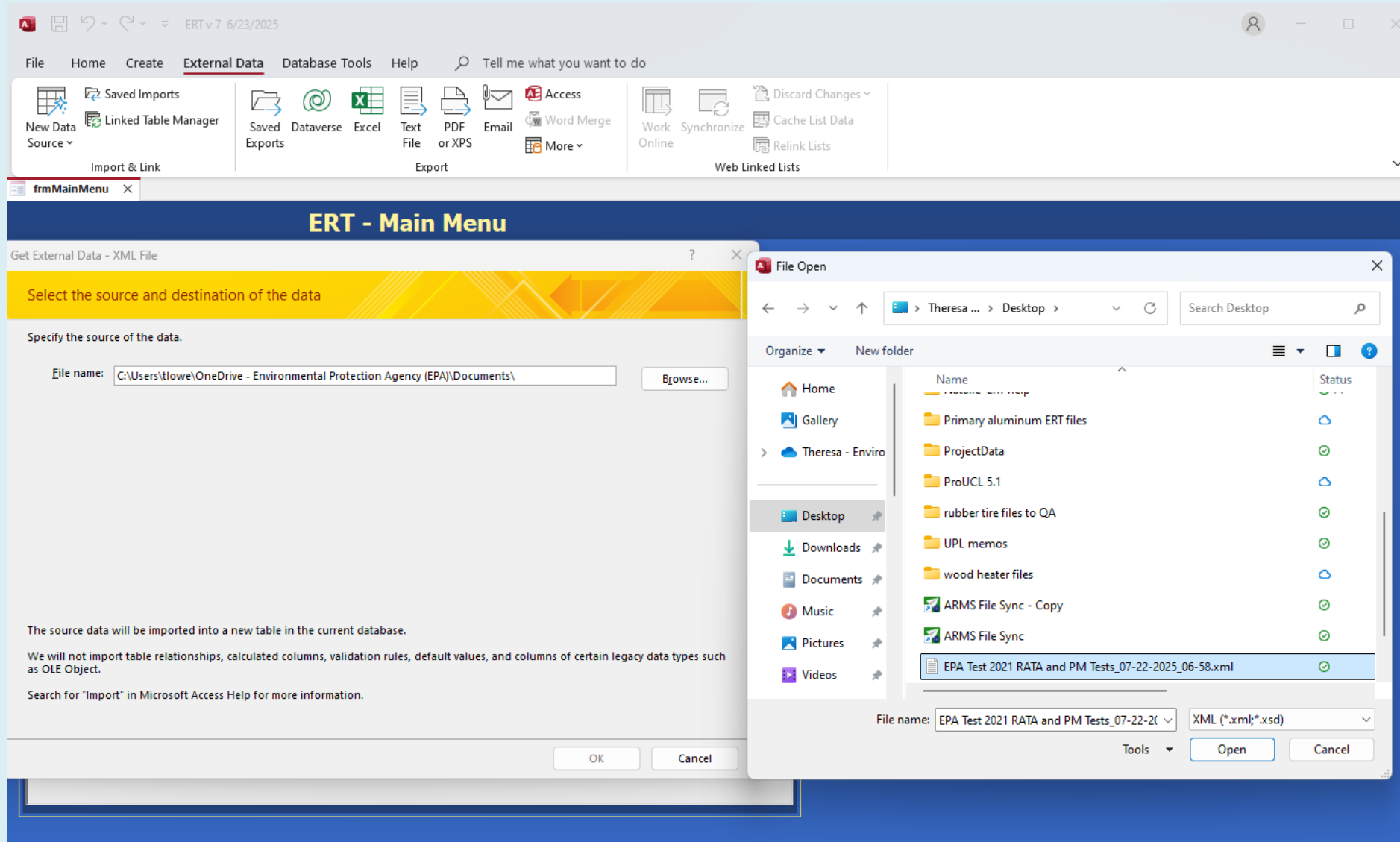
Step 2 Select New Data Source

Step 3. Select From File

Step 4. Select XML file



Selecting An XML File To Import



The screenshot shows the EPA ERT (Environmental Reporting Tool) v7.6/23/2025 interface. The 'External Data' tab is active in the ribbon, showing options like 'New Data Source', 'Saved Imports', 'Linked Table Manager', 'Import & Link', 'Export', and 'Web Linked Lists'. A 'Get External Data - XML File' dialog box is open, prompting the user to 'Select the source and destination of the data'. The 'File name' field is set to 'C:\Users\tlowe\OneDrive - Environmental Protection Agency (EPA)\Documents\'. A 'Browse...' button is available. Below the file name field, there is a note: 'The source data will be imported into a new table in the current database. We will not import table relationships, calculated columns, validation rules, default values, and columns of certain legacy data types such as OLE Object. Search for "Import" in Microsoft Access Help for more information.' At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Overlaid on the dialog is a 'File Open' window showing the 'Desktop' folder. The file list includes:

Name	Status
Primary aluminum ERT files	Cloud Sync
ProjectData	Cloud Sync
ProUCL 5.1	Cloud Sync
rubber tire files to QA	Cloud Sync
UPL memos	Cloud Sync
wood heater files	Cloud Sync
ARMS File Sync - Copy	Cloud Sync
ARMS File Sync	Cloud Sync
EPA Test 2021 RATA and PM Tests_07-22-2025_06-58.xml	Cloud Sync

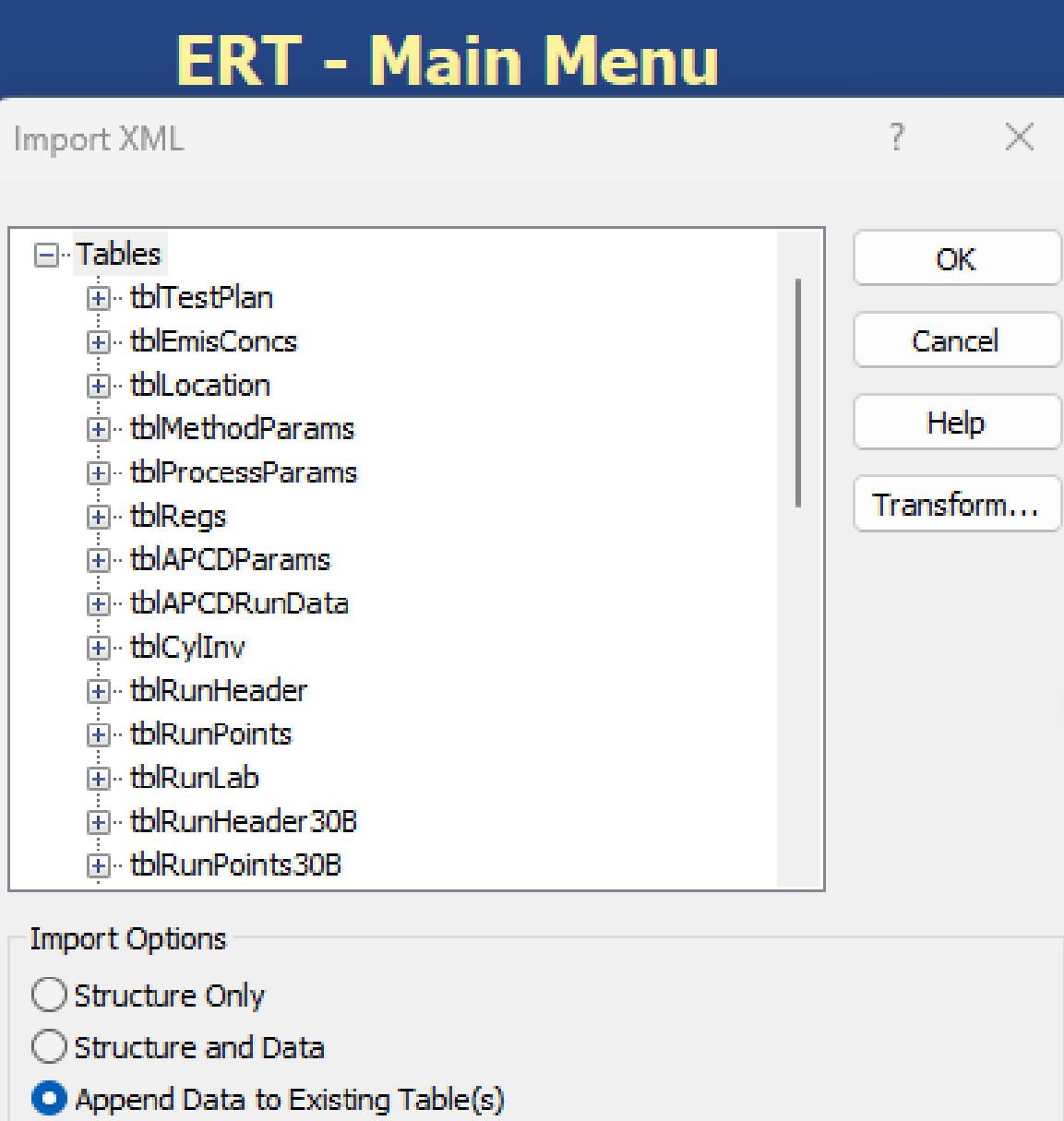
The 'File name' field in the 'File Open' window is set to 'EPA Test 2021 RATA and PM Tests_07-22-2025_06-58.xml' and the file type is 'XML (*.xml;*.xsd)'. 'Open' and 'Cancel' buttons are at the bottom right.

Append Existing Table(s)

Import XML box will
popup.

Import Options:

Select Append Data to
Existing Table(s) and
select OK



The screenshot shows the 'ERT - Main Menu' window with the 'Import XML' dialog box open. The dialog box has a title bar with a question mark and a close button. It contains a list of tables under the 'Tables' heading, each with a plus icon and a dotted line. The tables are: tblTestPlan, tblEmisConcs, tblLocation, tblMethodParams, tblProcessParams, tblRegs, tblAPCDParams, tblAPCDRunData, tblCylInv, tblRunHeader, tblRunPoints, tblRunLab, tblRunHeader30B, and tblRunPoints30B. To the right of the list are four buttons: OK, Cancel, Help, and Transform... Below the list is the 'Import Options' section with three radio buttons: 'Structure Only', 'Structure and Data', and 'Append Data to Existing Table(s)'. The 'Append Data to Existing Table(s)' option is selected.

ERT - Main Menu

Import XML

Tables

- + tblTestPlan
- + tblEmisConcs
- + tblLocation
- + tblMethodParams
- + tblProcessParams
- + tblRegs
- + tblAPCDParams
- + tblAPCDRunData
- + tblCylInv
- + tblRunHeader
- + tblRunPoints
- + tblRunLab
- + tblRunHeader30B
- + tblRunPoints30B

OK

Cancel

Help

Transform...

Import Options

☐ Structure Only

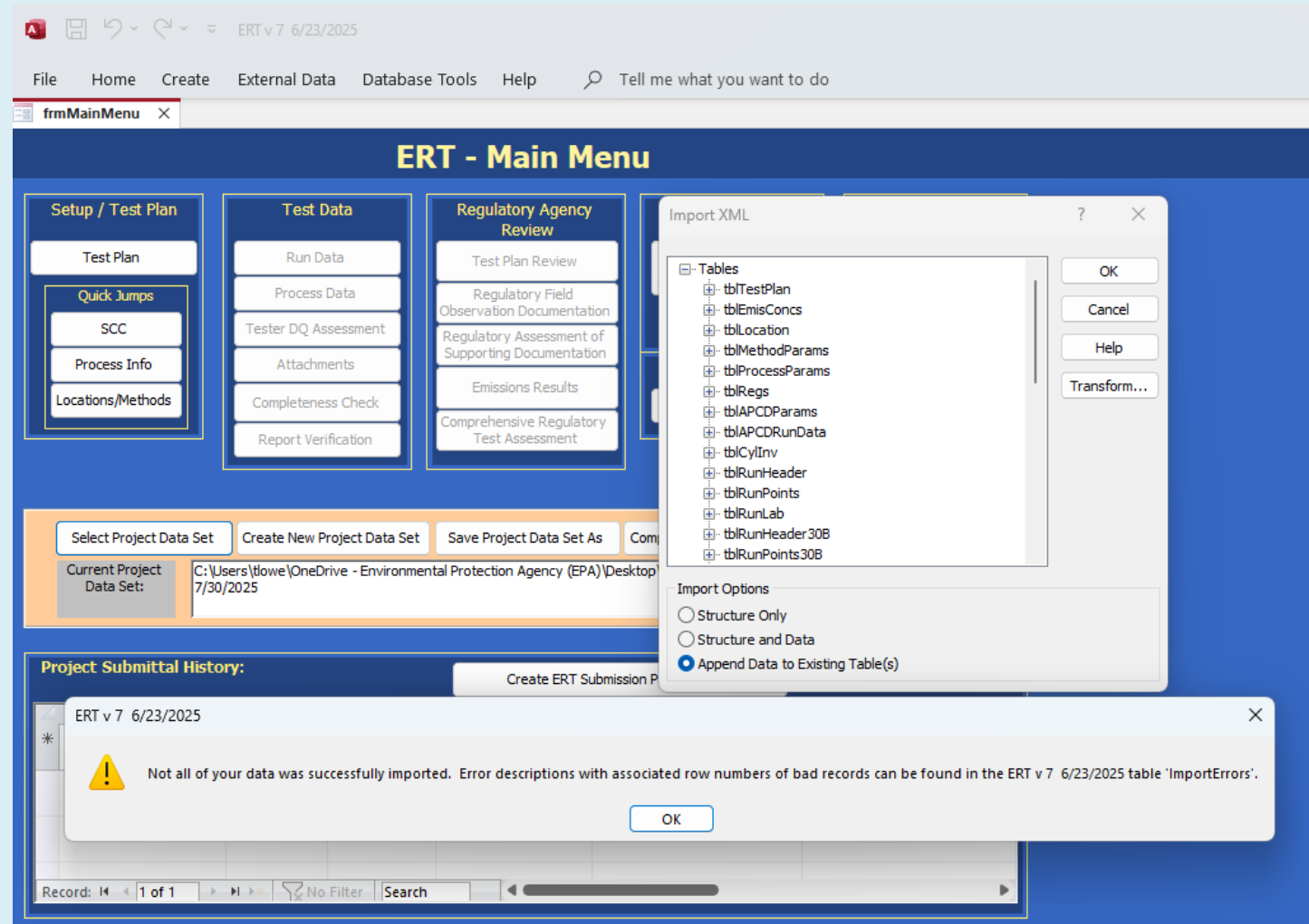
☐ Structure and Data

☒ Append Data to Existing Table(s)

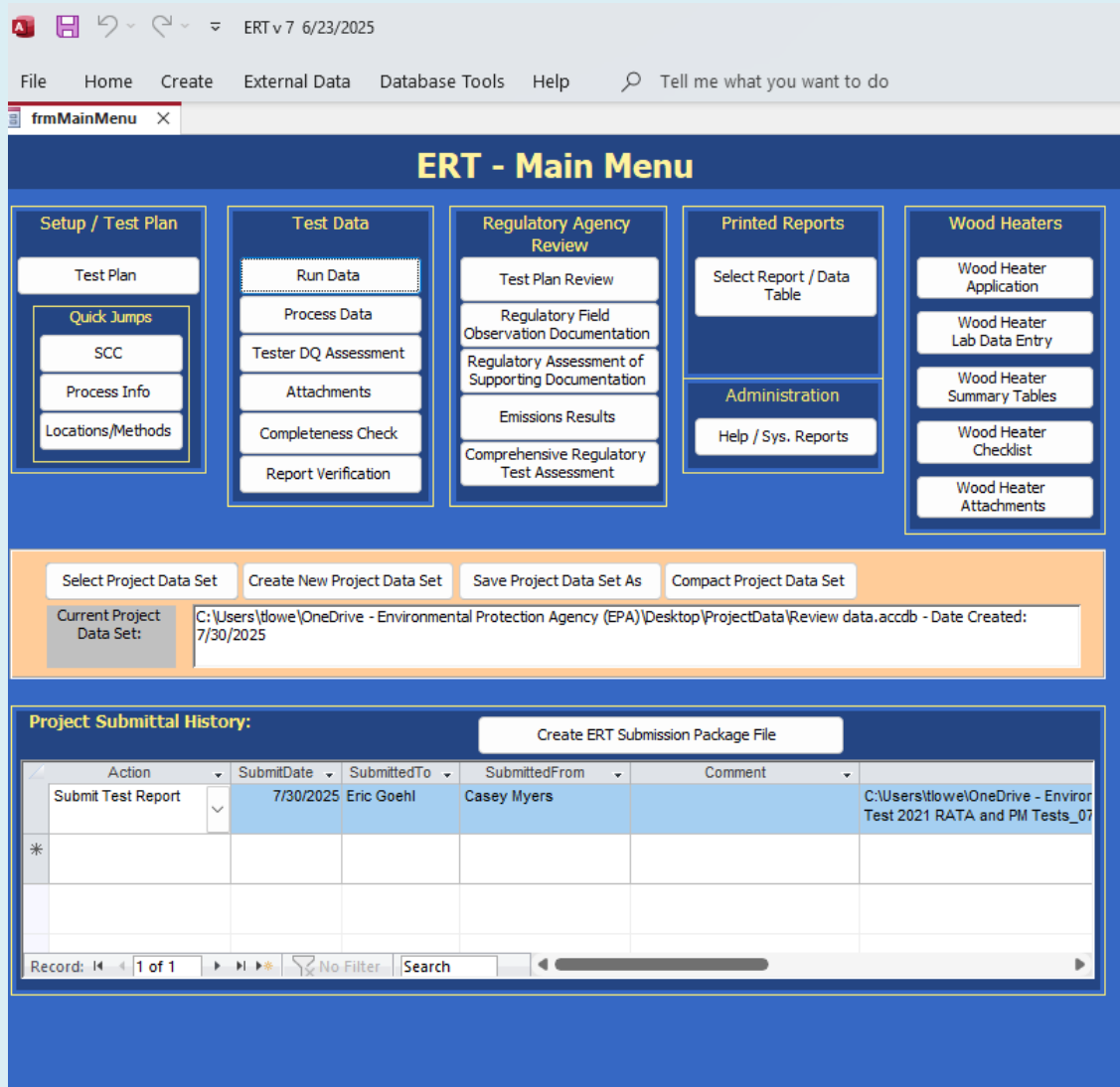
Table with Errors

There will be a popup saying that not all data will be successfully imported.

Select OK



Imported file
 Once the XML is imported the Test Data will no longer be greyed out and you will be able to access the data.



ERT v 7 6/23/2025

File Home Create External Data Database Tools Help Tell me what you want to do

frmMainMenu X

ERT - Main Menu

Setup / Test Plan

- Test Plan
- Quick Jumps
 - SCC
 - Process Info
 - Locations/Methods

Test Data

- Run Data
- Process Data
- Tester DQ Assessment
- Attachments
- Completeness Check
- Report Verification

Regulatory Agency Review

- Test Plan Review
- Regulatory Field Observation Documentation
- Regulatory Assessment of Supporting Documentation
- Emissions Results
- Comprehensive Regulatory Test Assessment

Printed Reports

- Select Report / Data Table
- Administration
 - Help / Sys. Reports

Wood Heaters

- Wood Heater Application
- Wood Heater Lab Data Entry
- Wood Heater Summary Tables
- Wood Heater Checklist
- Wood Heater Attachments

Select Project Data Set Create New Project Data Set Save Project Data Set As Compact Project Data Set

Current Project Data Set: C:\Users\tlowe\OneDrive - Environmental Protection Agency (EPA)\Desktop\ProjectData\Review data.acddb - Date Created: 7/30/2025

Project Submittal History:

Create ERT Submission Package File

Action	SubmitDate	SubmittedTo	SubmittedFrom	Comment
Submit Test Report	7/30/2025	Eric Goehl	Casey Myers	C:\Users\tlowe\OneDrive - Environmental Protection Agency (EPA)\Desktop\ProjectData\Review data.acddb - Date Created: 7/30/2025
*				

Record: 1 of 1 No Filter Search

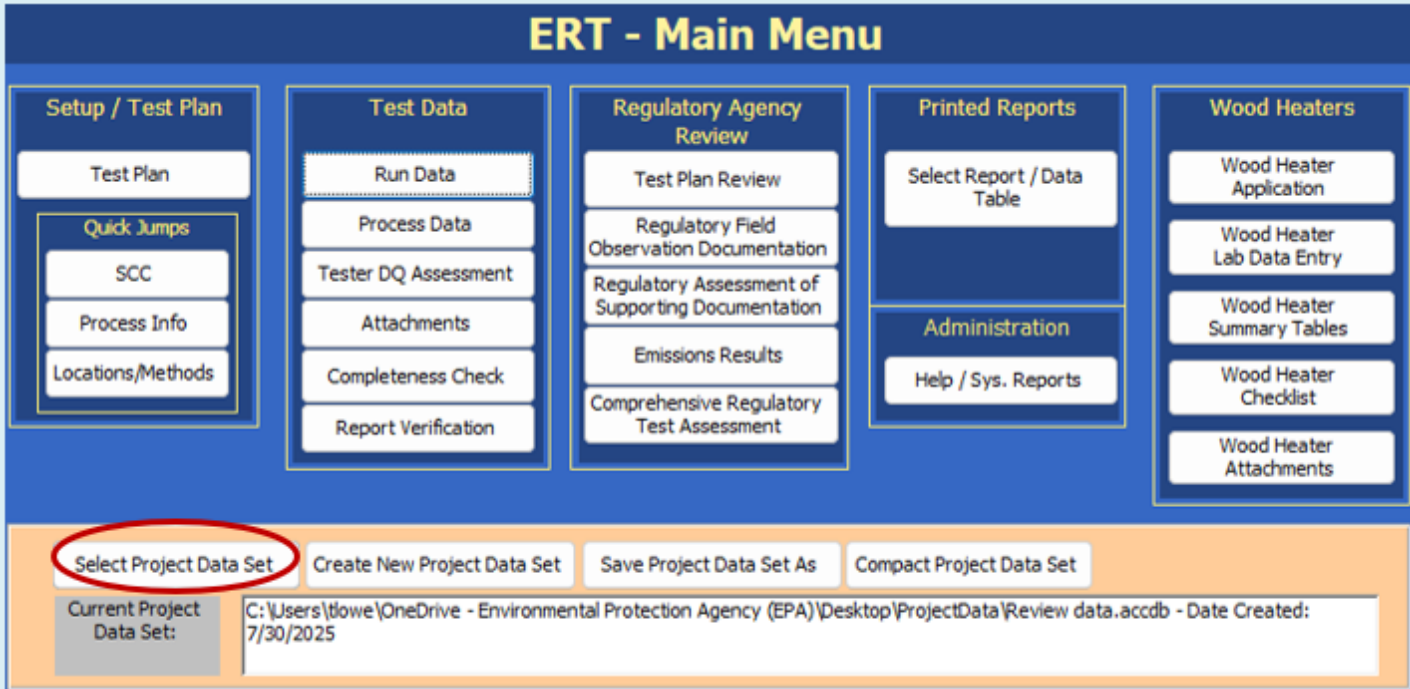


Opening an ERT File

To open a project data set you downloaded from CEDRI or WebFire,

1. Unzip the zip file and save in a designated folder.
2. Select Project Data Set Button

This will take you to a browser to select the file from the designated folder, select “OK”



ERT - Main Menu

Setup / Test Plan

Test Plan

Quick Jumps

SCC

Process Info

Locations/Methods

Test Data

Run Data

Process Data

Tester DQ Assessment

Attachments

Completeness Check

Report Verification

Regulatory Agency Review

Test Plan Review

Regulatory Field Observation Documentation

Regulatory Assessment of Supporting Documentation

Emissions Results

Comprehensive Regulatory Test Assessment

Printed Reports

Select Report / Data Table

Administration

Help / Sys. Reports

Wood Heaters

Wood Heater Application

Wood Heater Lab Data Entry

Wood Heater Summary Tables

Wood Heater Checklist

Wood Heater Attachments

Select Project Data Set

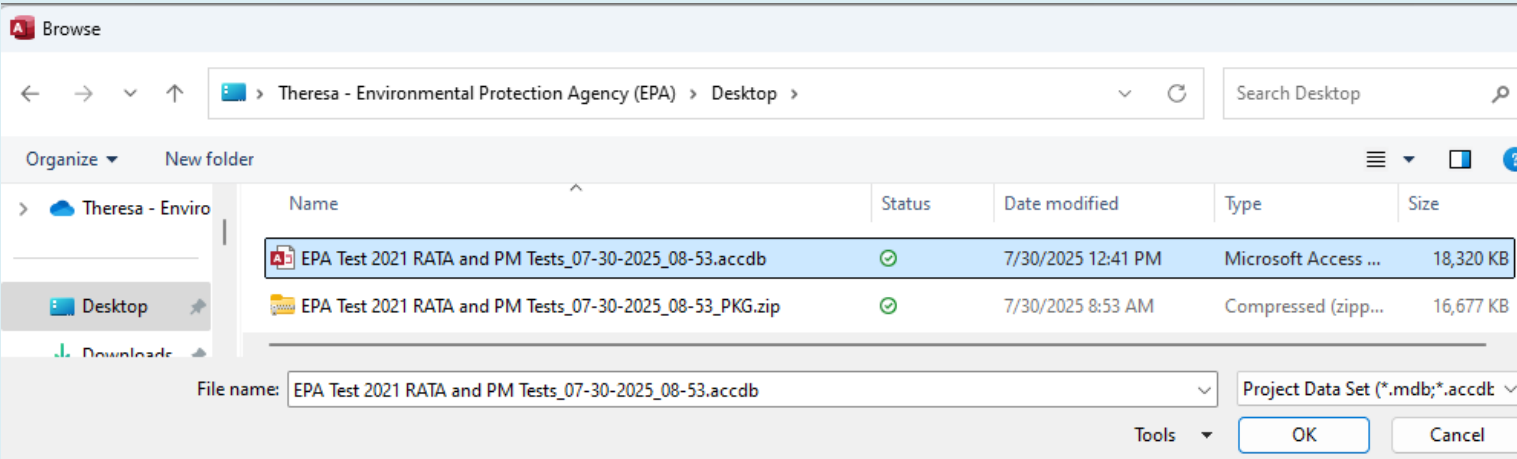
Create New Project Data Set

Save Project Data Set As

Compact Project Data Set

Current Project Data Set:

C:\Users\tlowe\OneDrive - Environmental Protection Agency (EPA)\Desktop\ProjectData\Review data.accdb - Date Created: 7/30/2025



Browse

Theresa - Environmental Protection Agency (EPA) > Desktop

Organize New folder

Name	Status	Date modified	Type	Size
EPA Test 2021 RATA and PM Tests_07-30-2025_08-53.accdb	✓	7/30/2025 12:41 PM	Microsoft Access ...	18,320 KB
EPA Test 2021 RATA and PM Tests_07-30-2025_08-53_PKG.zip	✓	7/30/2025 8:53 AM	Compressed (zipp...	16,677 KB

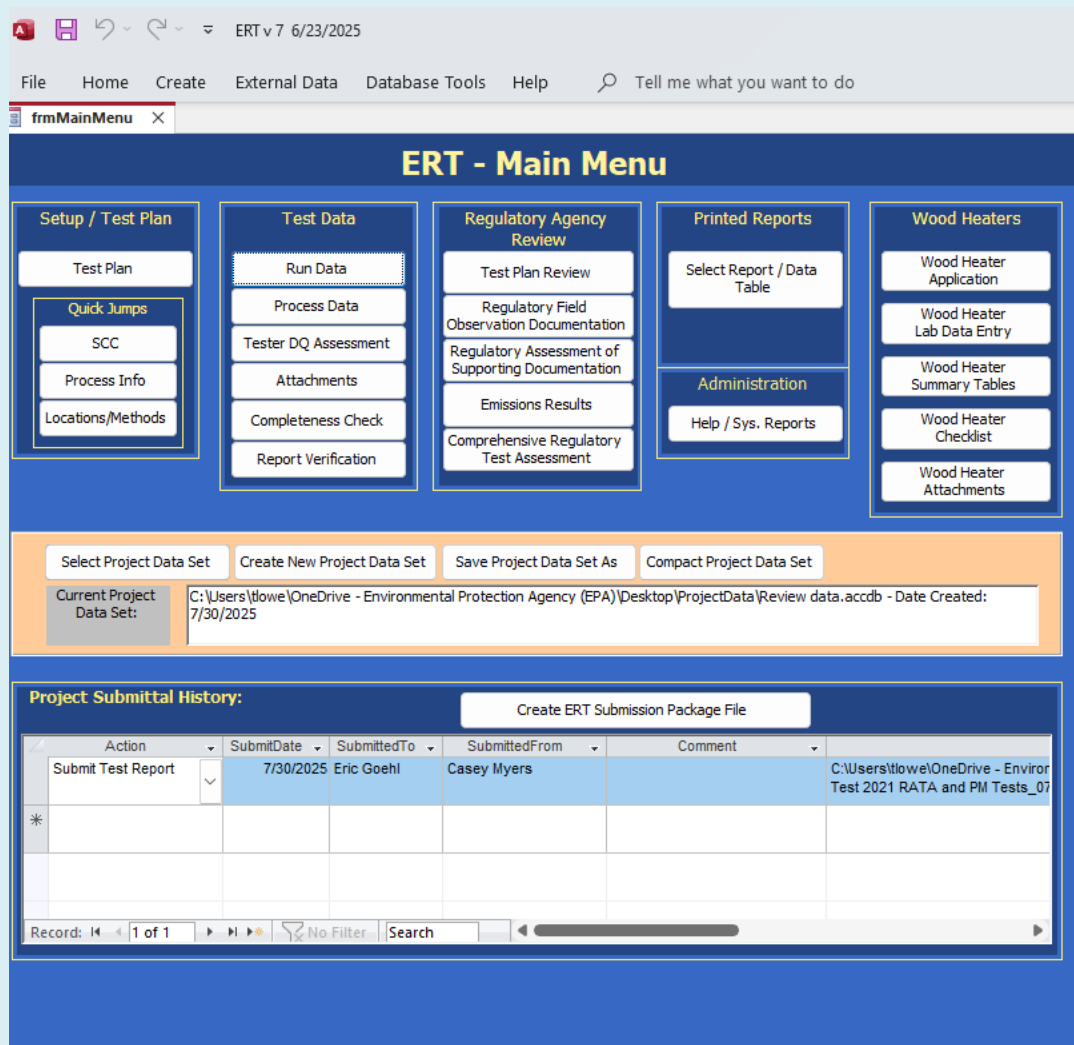
File name: EPA Test 2021 RATA and PM Tests_07-30-2025_08-53.accdb

Project Data Set (*.mdb;*.accdb)

Tools OK Cancel



ERT Main Menu



ERT v 7 6/23/2025

File Home Create External Data Database Tools Help Tell me what you want to do

frmMainMenu X

ERT - Main Menu

Setup / Test Plan

- Test Plan
- Quick Jumps
 - SCC
 - Process Info
 - Locations/Methods

Test Data

- Run Data
- Process Data
- Tester DQ Assessment
- Attachments
- Completeness Check
- Report Verification

Regulatory Agency Review

- Test Plan Review
- Regulatory Field Observation Documentation
- Regulatory Assessment of Supporting Documentation
- Emissions Results
- Comprehensive Regulatory Test Assessment

Printed Reports

- Select Report / Data Table
- Administration
 - Help / Sys. Reports

Wood Heaters

- Wood Heater Application
- Wood Heater Lab Data Entry
- Wood Heater Summary Tables
- Wood Heater Checklist
- Wood Heater Attachments

Select Project Data Set Create New Project Data Set Save Project Data Set As Compact Project Data Set

Current Project Data Set: C:\Users\tlowe\OneDrive - Environmental Protection Agency (EPA)\Desktop\ProjectData\Review data.accdb - Date Created: 7/30/2025

Project Submittal History: Create ERT Submission Package File

Action	SubmitDate	SubmittedTo	SubmittedFrom	Comment
Submit Test Report	7/30/2025	Eric Goehl	Casey Myers	C:\Users\tlowe\OneDrive - Environ Test 2021 RATA and PM Tests_07
*				

Record: 1 of 1 No Filter Search

- 5 areas to the ERT
- 1. Test plan
- 2. Test Data
- 3. Regulatory Agency Review
- 4. Printed Reports & Administration
- 5. Wood Heater Module



1. Test Plan (all asterisks(*) must be answered)

- Facility and tester information
- Permit and Source Classification Code (SCC)
- Location and Methods used for test
- Regulations
- Process and Air Pollution Control Device
- Audit/Calibrations
- Schedule
- Reviewers
- Attachments



1. Test Plan

Test Plan

ERT Package *

EPA Test 2021 RATA and PM Tests

Test Plan Date:*

7/13/2021

Open Expanded

Name:

Facility/Tester
Permit/SCC
Locations/Methods
Regulations
Process/APCD
Methods cont.
Audit/Calibrations
Schedule
Reviewers
Attach.

1. Please enter sampling location information. (all dimensions in inches)
(Required before test data entry)

Add Location

Attach File

Location: (click to view/edit)	Inlet/Outlet	Total Travel	Ports	Round Duct Diam	Duct Length	Duct Width	Equivalent Length	DownStream Distance	UpStream Distance	Emissions are	Up Stream Pt. Loc. (M1A)
Clinker Cooler Exhaust	Outlet	12	4	71				640	149	☒	0
Main Stack	Outlet	12	4	131.5				1433	329	☒	0

(Note: UpStreamDist = Distance upstream from the disturbance (Distance A - Fig. 1-1, RM1) ; DwnStreamDist = Distance downstream from the disturbance (Distance B - Fig 1-1, RM1))

2a. Please provide the following information for each test parameter. (Required before test data entry)

Add Target Parameters

Location	Test Method	Target Parameter	Num Test Runs	Test Run Duration	Comments
Clinker Cooler Exh	Method 5	Filterable Particulate	3	60	
Main Stack	ASTM D6348	Formaldehyde	3	60	
Main Stack	Method 25A	Total organic compound	12	30	
Main Stack	Method 30B	Mercury	12	30	
Main Stack	Method 3A O2	Oxygen	12	30	
Main Stack	Method 5	Filterable Particulate	6	60	
Main Stack	PST Hg to PS12B	Mercury	1	300	
Main Stack	PST O2 to PS3	Oxygen	1	210	
Main Stack	PST VOC to PS8	Total organic compound	1	210	

Record: 1 of 9

No Filter

Search

2b. Please select the Emissions Units of Measure for each location.

Add Emissions/Concentrations

Location	Method	Units of Measure	Corrected %	Process Rate, Parameter	Corrected Analyte
Clinker Cooler Exhaust	Method 5	grains/dscf	0		
Clinker Cooler Exhaust	Method 5	lb/hr	0	Tons/hr of Clinker Produced	
Main Stack	ASTM D6348	ppm	0		

Record: 1 of 9

No Filter

Search

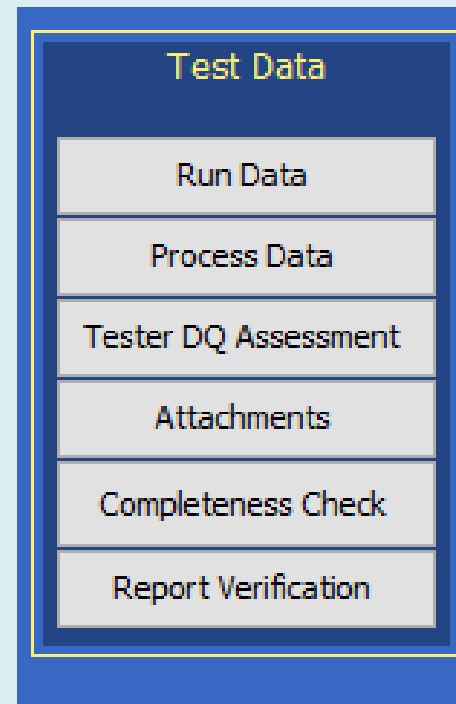
Previous Page

Next Page



2. Test Data

- Run data – Isokinetics and manual methods, Method 30B, instrumental methods and miscellaneous methods
- Process Data
- Tester DQ Assessment area for comments on testing
- Attachments
- Completeness check
- Report Verification



Isokinetic Calculated Results

Run Data Details

Facility:

US EPA

Open Expanded

Permitted Source ID/Description:

AIRS ID

10007

Select Location - Method:

Clinker Cooler Exhaust - Method 5

Add New Run Data

Delete Run Data

Select Run:

Method 5 - 1

Change Run Number

Change Run Date

Method Setup

Header Data

Point Data

Lab Data

Sampling/Stack Data Results

Cyclone Cut Size

Emissions

Method:

Method 5

RunNumber:

1

RunDate:

7/13/2021

Sampling Train Parameters:

NetRunTime (min):

60

NetTravPts:

12

Dn (in):

0.251

Cp:

0.84

Y:

1.006

Pb (in Hg):

24.73

DeltaH (in H2O):

2.90

Vm (acf):

64.010

tm (F):

83.25

Vmstd (DSCF):

52.175

Vlc:

8.8

Vwstd (WSCF):

0.415

% I:

101.8

Stack Gas Parameters:

% H2O:

0.7891

Vs (ft/s):

66.38

% H2Osat:

100.00

Dstk (in):

71

Mfd:

0.9921

Dwdth (in):

% CO2:

1

Dlngth (in):

% O2:

21

As (ft2):

27.49

% CO + N2:

78

Qsd (DSCFM):

68,306.2

Fo:

-0.10

Qaw (ACFM):

109,487.2

Md:

29.0000

MMBtu/Hr:

Ms:

28.9131

Pg (in H2O):

0.1

Ps (in Hg):

24.74

ts (F):

234.17

Sqrt Delta P Avg (in H2O):

0.9385

View All Runs

Note: Double click in fields to see the formulas

Field Formulas

Field ID

Field Desc

Field Calcs

ts

Average Stack Gas Temperature, °F

ts: Format(Avg([stacktemp]),"#.0")



Viewing All Runs

Location Clinker Cooler Exhaust - Method 5

	Average			
Run Number	1	2	3	
Test Date	7/13/2021	7/13/2021	7/13/2021	
Run Start Time	8:10:00 AM	9:35:00 AM	10:55:00 AM	
Run Finish Time	9:12:00 AM	10:36:00 AM	11:56:00 AM	
Net Traversing Points	12	12	12	
Net Run Time, minutes	60	60	60	
Nozzle Diameter, inches	0.251	0.251	0.251	0.251
Pitot Tube Coefficient	0.84	0.84	0.84	0.840
Dry Gas Meter Calibration Factor	1.006	1.006	1.006	1.006
Barometric Pressure, inches of Mercury	24.73	24.73	24.73	24.730
Average Orifice Meter Differential, inches H ₂ O	2.90	3.08	2.86	2.947
Dry Gas Meter Volume Sampled, cubic feet	64.010	66.790	64.975	65.258
Average Dry Gas Meter Temperature, °F	83.25	100.00	110.00	97.750
Dry Gas Meter Volume Sampled, dscf	52.175	52.840	50.469	51.828
Total Moisture Liquid collected, g	8.8	10.5	8.6	9.300
Volume of Water Vapor, standard cubic feet	0.415	0.495	0.406	0.439
Moisture Content of Stack Gas, %	0.7891	0.9281	0.7980	0.838
Moisture Saturation at Stack Gas Temperature, %	100.00	100.00	100.00	100.000
Dry Mole Fraction	0.9921	0.9907	0.9920	0.992
Carbon Dioxide, %	1	1	1	1.000
Oxygen, %	21	21	21	21.000
Carbon Monoxide & Nitrogen, %	78	78	78	78.000
Fuel Factor	-0.10	-0.10	-0.10	
Dry Molecular Weight, lb/lb-Mole	29.0000	29.0000	29.0000	29.000
Wet Molecular weight, lb/lb-Mole	28.9131	28.8975	28.9118	28.907
Flue Gas Static Pressure, inches of H ₂ O	0.1	0.1	0.1	0.100
Absolute Flue Gas Pressure, inches of Mercury	24.74	24.74	24.74	24.740
Average Stack Gas Temperature, °F	234.17	225.00	226.92	228.697
Square Root of Average Velocity, inches of H ₂ O	0.9385	0.9455	0.9031	0.929
Average Stack Gas Velocity, feet/second	66.38	66.45	63.54	65.457
Stack Cross-Sectional Area, square feet	27.49	27.49	27.49	27.490
Dry Volumetric Flow Rate, dry scfm	68,306.2	69,196.2	66,067.5	67,856.633
Actual Wet Volumetric Flue Gas Flow Rate, acfm	109,487.2	109,602.6	104,802.9	107,964.233
Percent Isokinetic of Sampling Rate, %	101.8	101.8	101.9	101.833
Percent Excess Air, %	-5,147.1	-5,147.1	-5,147.1	-5,147.100
F-Factor, dscfm/MMBtu @ %O ₂	0	0	0	0.000
Round Duct Diameter, inches	71	71	71	
Rectangular Duct Width, inches				
Rectangular Duct Length, inches				
Fw	0	0	0	0.000
Fc	0	0	0	0.000



Instrumental RATA Results

Facility Facility		PST NOx to PS2											
		RAStartDate 4/7/2020											
		RAEndDate 4/7/2020											
Run	Ref PPM	CEMS PPM	Ref. PPM@3%O2	CEMS PPM@3%O2	Ref. Lb/Hr	CERMS Lb/Hr	Ref. Lb/MMBTU	CERMS Lb/MMBTU	Differences				Ex.
									PPM	PPM@3%O2	Lb/Hr	Lb/MMBTU	Run
1	19.38	19.60	22.24	22.50	0.00		0.0270	0.0270	0.22	0.26		0.0000	☐
2	19.28	19.50	22.27	22.53	0.00		0.0270	0.0270	0.22	0.27		0.0000	☐
3	19.27	19.40	22.40	22.48	0.00		0.0272	0.0270	0.13	0.08		-0.0002	☐
4	19.01	19.10	22.10	22.16	0.00		0.0268	0.0270	0.09	0.06		0.0002	☐
5	19.38	19.50	22.53	22.62	0.00		0.0274	0.0280	0.12	0.09		0.0006	☐
6	19.38	19.60	22.53	22.74	0.00		0.0274	0.0280	0.22	0.21		0.0006	☐
7	19.17	19.20	22.28	22.27	0.00		0.0270	0.0270	0.03	0.00		0.0000	☐
8	18.96	19.00	22.03	22.08	0.00		0.0268	0.0270	0.04	0.05		0.0002	☐
9	19.02	19.00	22.11	22.08	0.00		0.0268	0.0270	-0.02	-0.03		0.0002	☐
Sums									1.04	0.99		0.0016	
Avg's	19.21	19.32	22.28	22.39	0.00		0.0270	0.0272	0.12	0.11		0.0002	
Standard Deviation									0.09	0.11		0.0003	
Confidence Coefficient									0.07	0.08		0.0002	
Emissions Standard													
Relative Accuracy using the Reference Method (< or = to 20%) (average emissions during test are greater than 50 percent of the emission standard)									N/A	N/A	N/A	N/A	
									0.95	0.87		1.4930	
Relative Accuracy using the Standard (< or = to 10%) (average emissions during test are less than 50 percent of the emission standard)									N/A	N/A	N/A	N/A	

Note: All calculations performed are as specified in Section 12 of PS2 and use the US EPA rounding conventions.



Sample Data Calculations for Method 30B

Run Data Details

Facility: US EPA

Permitted Source ID/Description: AIRS ID 10007

Select Location - Method: Main Stack - Method 30B

Add New Run Data

Select Run: Method 30B - 1

Change Run Number

Method Setup Header Data Point Data Sample Data Stack Data Results Emission QA/QC

Method: Method 30B RunNumber: 1 RunDate: 7/14/2021

	Sample A	Sample B
Trap ID:	OLC141293	OL580921
Section 1 Hg Mass (m1 / ms), ind. plug	42.00 ng	40.40 ng
Section 1 Spike Value (Mspiked)	0.00 ng	0.00 ng
Spike Recovery (Crec)	ug/dscm	ug/dscm
Spike Recovery Mass	ng	ng
Recovery Percentage (R)	%	%
Section 2 Hg Mass (M2)	0.400 ng	2.200 ng
Section 2 Breakthrough (%B)	0.952 %	5.446 %
Initial sampling rate	2.0065E+00 l/min	2.0071E+00 l/min
Average sampling rate	2.0065E+00 l/min	2.0071E+00 l/min
Maximum deviation from sampling rate	0 %	0 %
Total Sample Volume (Vt)	4.5420E-02 M3	4.5505E-02 M3
Spl Vol deviation from field recovery run	32.7 %	32.5 %
Sample Mercury Mass Collected	4.2400E+01 ng	4.2600E+01 ng
Sample Mercury Concentration (Cd)	9.3350E-01 ug/dscm	9.3616E-01 ug/dscm
Sample Mercury Concentration (Cw)	8.3600E-01 ug/scm	8.3900E-01 ug/scm
Test Run Mercury Concentration	9.3500E-01 ug/dscm	
Test Run Mercury Concentration Wet	8.3700E-01 ug/scm	
Paired trap agreement relative deviation (RD)	0.1419 %	

Run Data Details

Facility: US EPA

Permitted Source ID/Description: AIRS ID 10007

Select Location - Method: Main Stack - Method 30B

Add New Run Data

Select Run: Method 30B - 1

Change Run Number

Method Setup Header Data Point Data Sample Data Stack Data Results Emission QA/QC

Method: Method 30B RunNumber: 1 RunDate: 7/14/2021

	Sample A	Sample B
NetRunTime:	30	30
NetTravPts:	0	0
Cp:	0	0
Y:	0.996	1.002
Pb:	24.61	24.61
DeltaH:	0	0
Vm:	2.126	2.126
tm:	113.4	115.6
Vmstd:	1.604	1.607
Vlc components:	0.0	0.0
Vwstd:	0.00	0.00

	Value
% H2O:	10.3915
% H2Osat:	100.00
Mfd:	0.896085
% CO2:	15.4
% O2:	11.5
% CO + N2:	73.1
Fo:	0.61
Md:	30.92
Ms:	29.58
Pg:	0
Ps:	24.61
ts:	320

	Value
Vs:	
Dstk:	131.5
Dwdth:	
Dlngth:	
As:	94.315
Qsd:	173793.8
Qaw:	
MMBtu/Hr:	

View All Runs

Note: Double click in fields to see the formulas



Method 30B Data Quality Assessment

ERT v 7 2/12/2025

File Home Create External Data Database Tools Help Tell me what you want to do

frmMainMenu

ERT - Main Menu

Setup / Test Plan
 Test Plan
 Quick Jumps
 SCC
 Process Info
 Locations/Methods

Test Data
 Run Data
 Process Data
 Tester DQ Assessment
 Attachments
 Completeness Check
 Report Verification

Regulatory Agency Review
 Test Plan Review
 Regulatory Field Observation Documentation
 Regulatory Assessment of Supporting Documentation
 Emissions Results
 Comprehensive Regulatory Test Assessment

Printed Reports
 Select Report / Data Table
 Administration
 Help / Sys. Reports

Wood Heaters
 Wood Heater Application
 Wood Heater Lab Data Entry
 Wood Heater Summary Tables
 Wood Heater Checklist
 Wood Heater Attachments Checklist

Select Project Data Set Create New Project Data Set Save Project Data Set As Compact Project Data Set

Current Project Data Set: C:\Users\cmyers07\OneDrive - Environmental Protection Agency (EPA)\Profile\Desktop\EPA Test 2021 RATA and PM Tests_07-22-2025_06-58.accd - Date Created: 9/2/2021

Project Submittal History:

Create ERT Submission Package File

Action	SubmitDate	SubmittedTo	SubmittedFrom	Comment
Submit Test Report	9/3/2021	EPA	Nina Astillero	C:\Users\cgutwein\Desktop\ERT\2021_09-03-2021_14-21_p...
Submit Test Report	7/22/2025			C:\Users\cmyers07\OneDrive - Env... (EPA)\Profile\Desktop\EPA Test 2025_06-58.accd

Record: 1 of 2

Run Data Details

Facility: US EPA Open Expanded

Permitted Source ID/Description: AIRS ID 10007

Select Location - Method: Main Stack - Method 30B Add New Run Data Delete Run Data

Select Run: Method 30B - 1 Change Run Number Change Run Date

Method Setup Header Data Point Data Sample Data Stack Data Results Emission QA/QC

QA/QC Test or Specification	Acceptance Criteria	Demonstrated Performance
Pre-test leak check	≤ 4% of target sampling rate	The pre-test leak check for Sample A was 0% of the target (initial) sample rate therefore meeting the acceptance criteria of ≤ 4% of target sampling rate. The pre-test leak check for Sample B was 0% of the target (initial) sample flow rate therefore meeting the acceptance criteria of ≤ 4% of target sampling rate.
Post-test leak check	≤ 4% of average sampling rate	The post-test leak check for Sample A was 0 l/min which is 0% of the average sample flow rate of 2.01 l/min, and therefore met the acceptance criteria of ≤ 4% of target sampling rate. The post-test leak check for Sample B was 0 l/min which is 0% of the average sample flow rate of 2.01 l/min, and therefore met the acceptance criteria of ≤ 4% of target sampling rate.
Sample flow rate.	Adjust the sampling flow rate as necessary to maintain the initial sample flow rate.	The maximum flow rate variation for Sample A was 0% of the initial sample flow rate of 2.00646666666667 l/min. The maximum flow rate variation for Sample B was 0% of the initial sample flow rate of 2.00706666666667 l/min.
Test run total sample volume.	Within ± 20% of total volume sampled during field recovery test.	The total volume sampled for Sample A was 0.05 M3 and for Sample B was 0.05 M3 verses the average sample volume of 0.06 M3 for the field recovery test spiked samples. The maximum deviation of the total volume sampled was 32.7% of the total volume sampled during the field recovery test. One or both samples were greater than the ± 20% acceptance criteria
Sorbent trap section 2 breakthrough	≤ 10% of section 1 Hg mass for Hg concentrations > 1 µg/dscm; ≤ 20% of section 1 Hg massD or ≤ 0.2 µg/dscm absolute difference for Hg	The average Hg concentration was ≤ 1 µg/dscm. The Hg in section 2 was 0.4 µg for Sample A and 2.2 µg for Sample B for breakthroughs of 0.952% for Sample A and 5.446% for Sample B, thus meeting the acceptance criteria of ≤ 20% of section 1 Hg mass for Hg concentrations ≤ 1 µg/dscm. For Sample A the Hg in section 2 was ≤ 50% of the section 1 Hg mass therefore this sample may meet the acceptance criteria if the
Paired sorbent trap agreement.	≤ 10% Relative Deviation (RD) mass for Hg concentrations > 1 µg/dscm; ≤ 20% RD or ≤ 0.2 µg/dscm absolute	The average Hg concentration was ≤ 1 µg/dscm. The Hg concentration was 0.934 µg/dscm for Sample A and 0.936 µg/dscm for Sample B for a paired sorbent trap agreement of 0.14% relative deviation (RD), thus meeting the ≤ 20% RD or ≤ 0.2 µg/dscm acceptance criteria.
Field recovery test	Average recovery between 85% and 115% for Hg	A field recovery test was conducted but did not include this test. The recovery for all spiked samples averaged 100.261% which met the 85% to 115% acceptance criteria.
Sample analysis	Within valid calibration range (within calibration curve).	The analytical calibration range was between 10 and 500 µg. The expected mass to be collected was 30 µg and the mass recovered from Section 1 was 42 µg for sample A and 40.4 µg for sample B. The analysis was within the calibration range, thus meeting the acceptance criteria.

Miscellaneous Methods Data Tab

Run Data Details

Facility: Example file

Open Expanded

Permitted Source ID/Description: EU001 98.5 MMBtu/hr Wellons Wood-fired Boiler w/Multico

Select Location - Method: Stack Outlet - Method 320

Add New Run Data

Delete Run Data

Select Run: Method 320 - 1

Change Run Number

Change Run Date

Method Setup

Sample Data

Emissions

Method: Method 320

Run Number: 1

Run Date: 2/11/2024

Compound	Emission Value	Units of Measure	Flag	Comments
% Moisture	1.50E+01	percent(%)	ADL	
Ammonia	8.50E+01	ppb	ADL	
Ammonia	5.00E+00	ppb@15%O2	ADL	
Ammonia	0.00E+00	ppm		
Ammonia	0.00E+00	ppm @7%O2		
Formaldehyde	5.00E+01	ppb	ADL	
Formaldehyde	8.00E+01	ppb@15%O2		
Formaldehyde	0.00E+00	ppm		
Formaldehyde	0.00E+00	ppm @7%O2		
Hydrogen Chloride	1.00E+00	ppm	ADL	
Hydrogen Chloride	1.50E+00	ppm @7%O2	ADL	

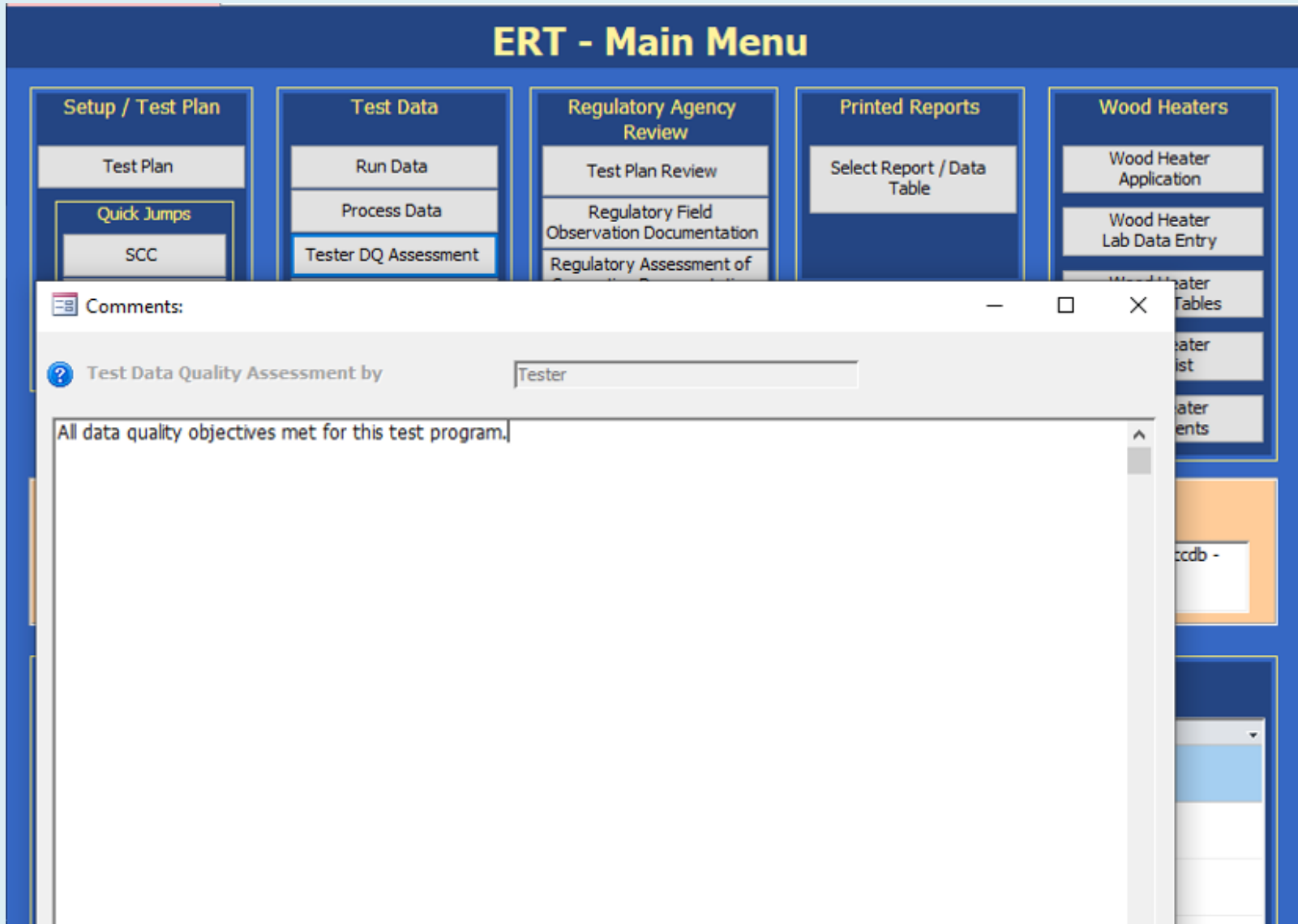
Record: 11

1 of 11

No Filter

Search

Tester Data Quality Assessment



The screenshot displays the "ERT - Main Menu" interface. The menu is organized into five main sections: "Setup / Test Plan", "Test Data", "Regulatory Agency Review", "Printed Reports", and "Wood Heaters". The "Test Data" section is highlighted, showing options for "Run Data", "Process Data", and "Tester DQ Assessment". The "Tester DQ Assessment" option is selected, leading to a "Comments:" window. This window contains a text input field for "Test Data Quality Assessment by" with the value "Tester" and a large text area for comments. The comment text reads: "All data quality objectives met for this test program."

ERT - Main Menu

- Setup / Test Plan**
 - Test Plan
 - Quick Jumps
 - SCC
- Test Data**
 - Run Data
 - Process Data
 - Tester DQ Assessment
- Regulatory Agency Review**
 - Test Plan Review
 - Regulatory Field Observation Documentation
 - Regulatory Assessment of
- Printed Reports**
 - Select Report / Data Table
- Wood Heaters**
 - Wood Heater Application
 - Wood Heater Lab Data Entry
 - Wood Heater Tables
 - Water List
 - Water Events
 - ccdb -

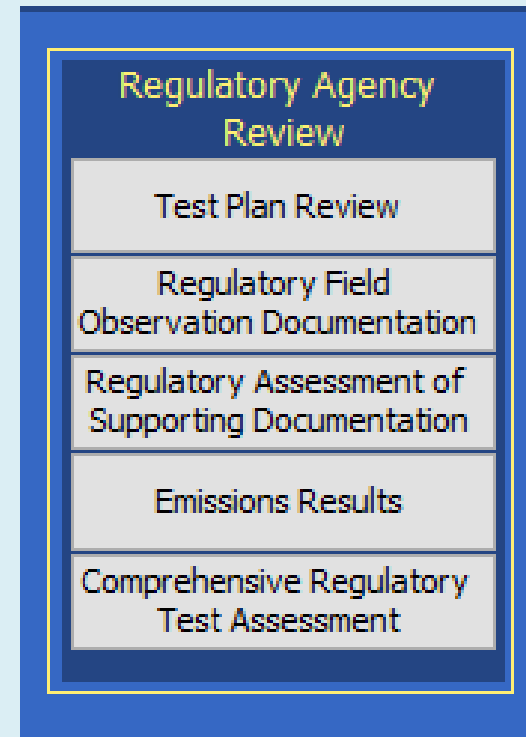
Comments:

Test Data Quality Assessment by:

All data quality objectives met for this test program.

3. Regulatory Agency Review

- Test plan review
- Regulatory Field Observation Documentation
- Regulatory Assessment of Supporting Documentation
- Emission Results
- Comprehensive Regulatory Test Assessment (comments from regulator)



ERT Test Plan Review

Test Plan Review

Test Plan Title: EPA Test 2021 RATA and PM Tests
Test Plan Date: 7/13/2021
Regulatory Agency Review Accepted (Yes, No, N/A)

Open Expanded

Facility/Permit Locations/Methods Regulations Process/APCD Methods cont. Audit/Calibrations Schedule Reviewers Attach.

Facility Name:
US EPA

Address: 109 TW Alexander Drive

City: Durham

State/Zip: NC 27709-

County: Durham Co

Contact: Casey Myers

Phone: (919) 541-0061

ORIS code

email: myers.casey.b@epa.gov

AFS Number:

Industry /SCC/NAIS: 327310

FRS: 110012414128

State ID:

Lat./Long.: 41.06330 -111.53170

Testing Company: [View Test Company Certification](#)
EG Testing

Address: 123 Main Street

City: Durham

State/Zip: NC 12345

Contact: Eric Goehl

Phone: (919) 541-0101

Test Number

email: goehl.eric@epa.gov

Project No.: M212812

SCC/Desc.: 30500623 [View Field Team Lead Certification](#)
Industrial Processes - Mineral Products - Cement Manufacturing (Dry Process) - Preheater/Precalciner Kiln

Air Permit Number 2900001003

Permitted Source ID and Name AIRS ID 10007

Permitted Maximum Process Rate 930,000 tons per year of clinker

Maximum Normal Operation Process Rate

Target Process Rate for Testing:

Operational Hours Per Year: 8760

Facility Info:
Add/View Comment

Test Co. Info:
Add/View Comment

Source info:
Add/View Comment

Next Page

Inserting Comments into Test Plan

The screenshot displays the 'Test Plan Review' application window. At the top, the 'Test Plan Title' is 'EPA Test 2021 RATA and PM Tests' and the 'Test Plan Date' is '7/13/2021'. A button for 'Regulatory Agency Review Accepted (Yes, No, N/A)' is visible. The main content area shows a table with columns for 'Facility/Permit', 'Locations/Methods', and 'Process'. A 'Comments' dialog box is open, allowing the user to insert comments into a specific 'Test Plan Section' (currently 'Process'). The dialog box contains a text area for 'Insert comments on test plan here...'. The background table shows data for 'Main Stack' and 'Clinker Cooler Exha' with locations 'BAGHOUSE' and 'LOW'.

Test Plan Review

Test Plan Title: EPA Test 2021 RATA and PM Tests **Test Plan Date:** 7/13/2021

Open Expanded ☐ **Regulatory Agency Review Accepted (Yes, No, N/A)**

Facility/Permit Locations/Methods

6a. Enter the process data

Process Pa

Clinker Produced

6b. Enter the process la

Analysis

7a. Please give a brief c

or

process flow diagram

The Devils Slide kiln is a 2300 TPD. Although the and other raw materials materials are fed into the undergoes physical and

7b. Control Devices:

Location	
Main Stack	BAGHOUSE
Main Stack	LOW
Clinker Cooler Exha	BAGHOUSE

Column widths may be changed by user.

Previous Page Next Page

Add/View Comment

Test Plan Review Comments - Printable

The screenshot displays the 'ERT - Main Menu' application. A 'View/Export Reports/Tables' dialog box is open, showing 'Test Plan Review' selected in a dropdown menu. Below the dropdown are four buttons: 'View Report/Table on Screen', 'Export Report/Table to Microsoft Word', 'Export Report/Table to Microsoft Excel', and 'Create PDF of Report/Table'. In the background, the main menu has several sections: 'Setup / Test Plan' (Test Plan, Quick Jumps, SCC, Process Info, Locations/Methods), 'Test Data' (Run Data, Process Data, Tester DQ Assessment, Attachments, Completeness Check), 'Regulatory Agency Review' (Test Plan Review, Regulatory Field Observation Documentation, Regulatory Assessment of Supporting Documentation, Emissions Results, Comprehensive Regulatory), and 'Printed Reports' (Select Report / Table, Administrative, Help / Sys. Req.).

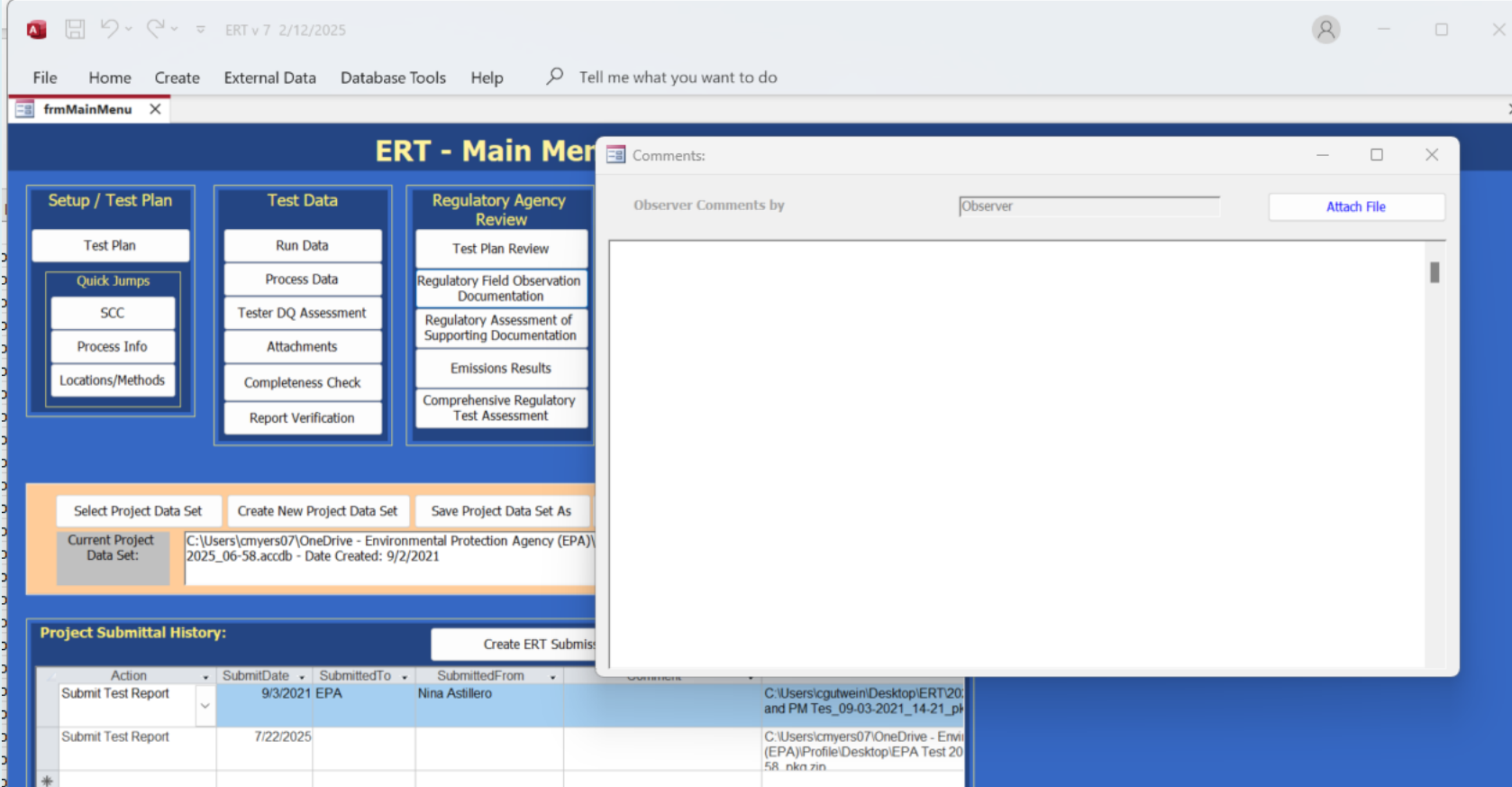
Overlaid on the right is a 'Test Plan Review Comments' window titled 'Press Ctrl-P to Print'. It contains two tables of review comments:

Test Plan Section	Field ID
Item 7b	APCD
Comment	
Need to add scrubber and PH of scrubber water	

Test Plan Section	Field ID
Item 8	TestInAccordanceDesc
Comment	
Missing documentation	

At the bottom of the comments window, it shows 'Wednesday, January 18, 2017' and 'Page 1 of 1'. The main application window at the bottom has a status bar with 'Record: 1 of 1', 'No Filter', and a 'Search' field.

Regulatory Field Observations



ERT v 7 2/12/2025

File Home Create External Data Database Tools Help Tell me what you want to do

frmMainMenu X

ERT - Main Menu

Setup / Test Plan
Test Plan
Quick Jumps
SCC
Process Info
Locations/Methods

Test Data
Run Data
Process Data
Tester DQ Assessment
Attachments
Completeness Check
Report Verification

Regulatory Agency Review
Test Plan Review
Regulatory Field Observation Documentation
Regulatory Assessment of Supporting Documentation
Emissions Results
Comprehensive Regulatory Test Assessment

Select Project Data Set Create New Project Data Set Save Project Data Set As

Current Project Data Set: C:\Users\cm Myers07\OneDrive - Environmental Protection Agency (EPA)\2025_06-58.acddb - Date Created: 9/2/2021

Project Submittal History: Create ERT Submis

Action	SubmitDate	SubmittedTo	SubmittedFrom	Comment
Submit Test Report	9/3/2021	EPA	Nina Astillero	C:\Users\cgutwein\Desktop\ERT2020 and PM Tes_09-03-2021_14-21_pl
Submit Test Report	7/22/2025			C:\Users\cm Myers07\OneDrive - Envil (EPA)\Profile\Desktop\EPA Test 20 58_nkn zin

Test Report Review Feature – Emission Review

Test Report Review

Facility:

Permitted Source ID/Description:

Select Compounds to view:

Average Emissions

Applicable State and Federal Regulations for this Test Report:

Regulation	Compound	Limit	Unit
Portland Cement	Filterable Particulate	0.07 lb / Tons of Clinker Produced	

Compound Emissions:

Location	Compound	Unit of Measure	Run1	Run2	Run3	Run Average	RegL
Clinker Cooler Exhaust - Method 5	Filterable Particulate	lb/hr	4.50E-01	1.04E+00	3.05E-01	5.98E-01	
Clinker Cooler Exhaust - Method 5	Filterable Particulate	lb / Tons of Clinker Produced	4.57E-03	1.06E-02	3.10E-03	6.09E-03	0.07
Clinker Cooler Exhaust - Method 5	Filterable Particulate	gr/dscf	7.69E-04	1.75E-03	5.38E-04	1.02E-03	
Main Stack - Method 25A	Total organic compou	ppm	1.35E+01	1.15E+01	1.19E+01	1.23E+01	
Main Stack - Method 25A 3	Total organic compou	ppm	1.17E+01	1.32E+01	1.27E+01	1.25E+01	
Main Stack - Method 25A 3 6	Total organic compou	ppm	1.26E+01	1.21E+01	1.14E+01	1.20E+01	
Main Stack - Method 25A 3 6 9	Total organic compou	ppm	1.20E+01	1.36E+01	1.19E+01	1.25E+01	
Main Stack - Method 30B	Mercury	lb/hr	6.03E-04	5.05E-04	6.36E-04	5.81E-04	
Main Stack - Method 30B	Mercury	lb / Tons of Clinker Produced	6.12E-06	5.13E-06	6.46E-06	5.90E-06	
Main Stack - Method 30B	Mercury	ug/dscm	9.35E-01	7.62E-01	9.65E-01	8.87E-01	
Main Stack - Method 30B 3	Mercury	ug/dscm	8.77E-01	8.11E-01	6.76E-01	7.88E-01	
Main Stack - Method 30B 3	Mercury	lb / Tons of Clinker Produced	5.87E-06	5.38E-06	4.45E-06	5.23E-06	
Main Stack - Method 30B 3	Mercury	lb/hr	5.78E-04	5.30E-04	4.38E-04	5.15E-04	
Main Stack - Method 30B 3 6	Mercury	lb / Tons of Clinker Produced	4.85E-06	4.53E-06	4.40E-06	4.59E-06	
Main Stack - Method 30B 3 6	Mercury	ug/dscm	7.32E-01	6.84E-01	6.61E-01	6.92E-01	
Main Stack - Method 30B 3 6	Mercury	lb/hr	4.78E-04	4.46E-04	4.33E-04	4.52E-04	
Main Stack - Method 30B 3 6 9	Mercury	lb/hr	5.58E-04	6.69E-04	8.46E-04	6.91E-04	
Main Stack - Method 30B 3 6 9	Mercury	lb / Tons of Clinker Produced	5.66E-06	6.79E-06	8.59E-07	4.44E-06	
Main Stack - Method 30B 3 6 9	Mercury	ug/dscm	8.38E-01	9.93E-01	1.27E+00	1.03E+00	
Main Stack - Method 3A O2	Oxygen	Percent(%)	1.18E+01	1.19E+01	1.19E+01	1.19E+01	
Main Stack - Method 3A O2 3	Oxygen	Percent(%)	1.19E+01	1.18E+01	1.18E+01	1.18E+01	
Main Stack - Method 3A O2 3 6	Oxygen	Percent(%)	1.18E+01	1.18E+01	1.18E+01	1.18E+01	
Main Stack - Method 3A O2 3 6 9	Oxygen	Percent(%)	1.17E+01	1.18E+01	1.18E+01	1.18E+01	
Main Stack - Method 5	Filterable Particulate	lb / Tons of Clinker Produced	1.53E-02	1.12E-02	1.12E-02	1.26E-02	0.07

Record: 1 of 29

ERT – File attachment list

Test Plan Review

Test Plan Title: EPA Test 2021 RATA and PM Tests

Test Plan Date: 7/13/2021

Regulatory Agency Review Accepted (Yes, No, N/A)

Facility/Permit Locations/Methods Regulations Process/APCD Methods cont. Audit/Calibrations Schedule Reviewers Attach.

Please enter attachments.

AttachDesc	
Source/Process Flow Diagram	0(0)
Alternate Method Request and Approval (Item 8) (optional)	0(0)
EPA Method 1Location Supporting Documentation (Item 9) (optional)	0(0)
Cyclonic Flow Absence Supporting Documentation (Item 10)	0(0)
Pre-Test Meter Boxes/DGMs Calibrations	0(0)
Post-Test Meter Boxes/DGMs Calibrations	0(0)
Nozzles Calibrations	0(0)
Pitots Calibrations	0(0)
Thermocouples Calibrations	0(0)
Sampling Locations Dimensions and Point Locations	0(0)
Run Field Data Sheets (raw data sheets for field sampling)	0(0)
Moisture Recovery	0(0)
Lab Data (raw data sheets for field and laboratory analysis)	0(0)
Chain-of-Custody	0(0)
Observer Comments	0(0)
Documentation of competence as an AETB and QI for stationary source testing.	0(0)
Laboratory Accreditation Certification	0(0)
Field Notes	0(0)

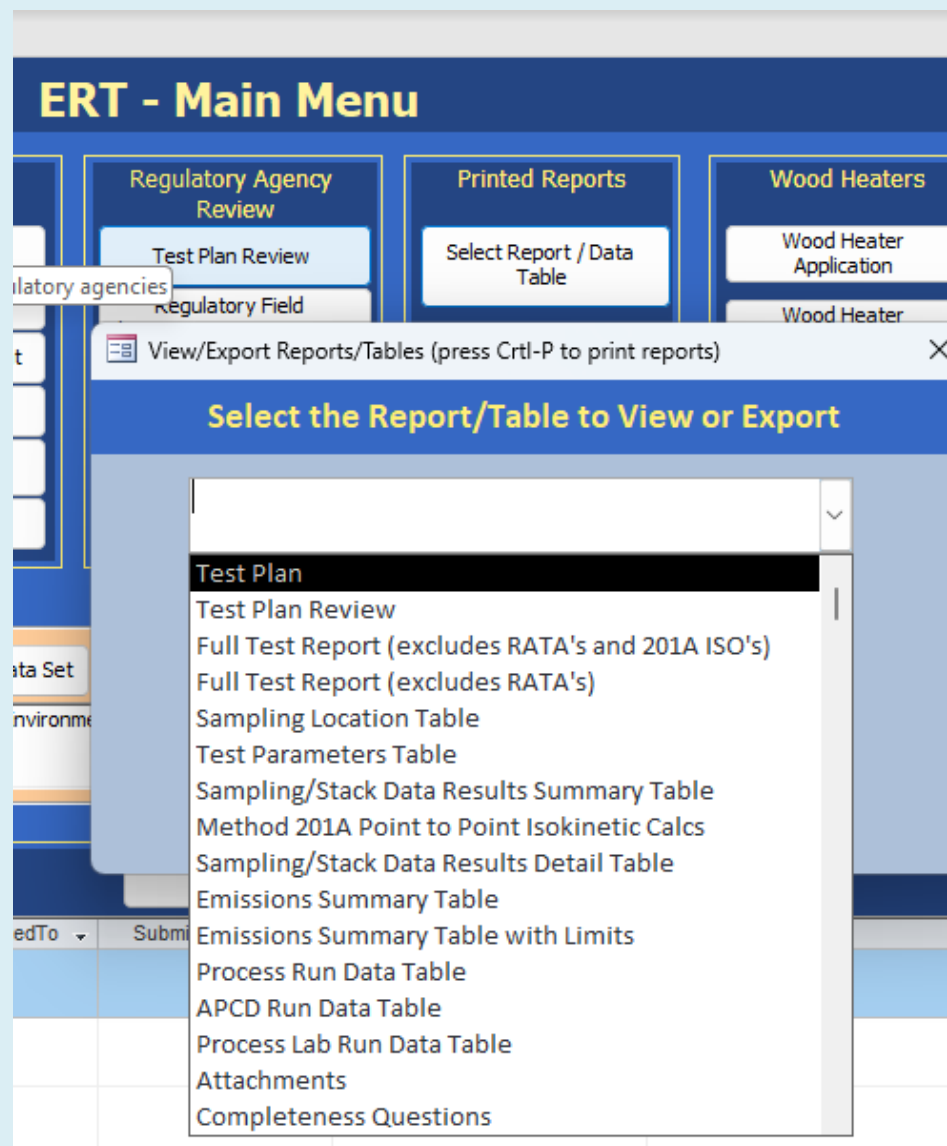
Record: 1 of 33
No Filter
Search

To view an attachment:
- double click on the "paper clip"
- select "view"

Attachments Included:
Add/View Comment

Previous Page

How to Get Data Out of ERT Files



Export Data to Excel, Word or pdf

 View/Export Reports/Tables (press Ctrl-P to print reports) 

Select the Report/Table to View or Export

Emissions Summary Table with Limits 

View Report/Table on Screen

Export Report/Table to Microsoft Word

Export Report/Table to Microsoft Excel

Create PDF of Report/Table

Export Emission Results to Excel

	A	B	C	D	E	F	G	H
1	Location	Compound	1	2	3	4	txtAverage	RegLimits
2	Clinker Cooler Exhaust - Method 5							
3		Filterable Particulate						
4			RunNumber	1	2	3		
5			Mass_mg	2.6	6	1.76	3.45E+00	
6			gr/dscf	7.69E-04	1.75E-03	5.38E-04	1.02E-03	
7			lb / Tons of Clinker Produced	4.57E-03	1.06E-02	3.10E-03	6.09E-03	0.07
8			lb/hr	4.50E-01	1.04E+00	3.05E-01	5.98E-01	
9	Main Stack - Method 25A							
10		Total organic compounds (TOC) as Propane						
11			Run	1	10	11		
12			ppm	1.35E+01	1.15E+01	1.19E+01	1.23E+01	

Copy Emission Results Button

Test Report Review

Facility: US EPA Open Expanded

Permitted Source ID/Description: AIRS ID 10007

Select Compounds to view: Show All Compounds

Average Emissions

Applicable State and Federal Regulations for this Test Report:

Regulation	Compound	Limit	Unit
Portland Cement	Filterable Particulate	0.07 lb / Tons of Clinker Produced	

Compound Emissions:

Location	Compound	Unit of Measure	Run1	Run2	Run3	Run Average	RegLimit
Clinker Cooler Exhaust - Method 5	Filterable Particulate	lb/hr	4.50E-01	1.04E+00	3.05E-01	5.98E-01	
Clinker Cooler Exhaust - Method 5	Filterable Particulate	lb / Tons of Clinker Produced	4.57E-03	1.06E-02	3.10E-03	6.09E-03	0.07
Clinker Cooler Exhaust - Method 5	Filterable Particulate	gr/dscf	7.69E-04	1.75E-03	5.38E-04	1.02E-03	
Main Stack - Method 25A	Total organic compou	ppm	1.35E+01	1.15E+01	1.19E+01	1.23E+01	
Main Stack - Method 25A 3	Total organic compou	ppm	1.17E+01	1.32E+01	1.27E+01	1.25E+01	
Main Stack - Method 25A 3 6	Total organic compou	ppm	1.26E+01	1.21E+01	1.14E+01	1.20E+01	
Main Stack - Method 25A 3 6 9	Total organic compou	ppm	1.20E+01	1.36E+01	1.19E+01	1.25E+01	
Main Stack - Method 30B	Mercury	ug/dscm	9.35E-01	7.62E-01	9.65E-01	8.87E-01	
Main Stack - Method 30B	Mercury	lb/hr	6.03E-04	5.05E-04	6.36E-04	5.81E-04	
Main Stack - Method 30B	Mercury	lb / Tons of Clinker Produced	6.12E-06	5.13E-06	6.46E-06	5.90E-06	

Record: 1 of 29 Unfiltered Search

Getting Data into Excel by Pasting

	A	B	C	D	E	F	G	H
1	Location	Compound	Unit of Measure	Run1	Run2	Run3	Run Average	RegLimit
2	Clinker Cooler Exhaust - Method 5	Filterable Particulate	lb/hr	4.50E-01	1.04E+00	3.05E-01	5.98E-01	
3	Clinker Cooler Exhaust - Method 5	Filterable Particulate	lb / Tons of Clinker	4.57E-03	1.06E-02	3.10E-03	6.09E-03	0.07
4	Clinker Cooler Exhaust - Method 5	Filterable Particulate	gr/dscf	7.69E-04	1.75E-03	5.38E-04	1.02E-03	
5	Main Stack - Method 25A	Total organic compounds (TOC)	ppm	1.35E+01	1.15E+01	1.19E+01	1.23E+01	
6	Main Stack - Method 25A 3	Total organic compounds (TOC)	ppm	1.17E+01	1.32E+01	1.27E+01	1.25E+01	
7	Main Stack - Method 25A 3 6	Total organic compounds (TOC)	ppm	1.26E+01	1.21E+01	1.14E+01	1.20E+01	
8	Main Stack - Method 25A 3 6 9	Total organic compounds (TOC)	ppm	1.20E+01	1.36E+01	1.19E+01	1.25E+01	
9	Main Stack - Method 30B	Mercury	ug/dscm	9.35E-01	7.62E-01	9.65E-01	8.87E-01	
10	Main Stack - Method 30B	Mercury	lb/hr	6.03E-04	5.05E-04	6.36E-04	5.81E-04	
11	Main Stack - Method 30B	Mercury	lb / Tons of Clinker	6.12E-06	5.13E-06	6.46E-06	5.90E-06	
12	Main Stack - Method 30B 3	Mercury	lb / Tons of Clinker	5.87E-06	5.38E-06	4.45E-06	5.23E-06	
13	Main Stack - Method 30B 3	Mercury	ug/dscm	8.77E-01	8.11E-01	6.76E-01	7.88E-01	
14	Main Stack - Method 30B 3	Mercury	lb/hr	5.78E-04	5.30E-04	4.38E-04	5.15E-04	
15	Main Stack - Method 30B 3 6	Mercury	lb / Tons of Clinker	4.85E-06	4.53E-06	4.40E-06	4.59E-06	

Question Check 3

Break #2

AP-42 and WebFIRE

An overview of EPA's emission factor program

AP-42/WebFIRE Background

- What is an emission factor?
 - An emission factor is used to estimate air pollutant emissions from a normally-operating process or activity
 - EPA's emission factors represent national averages
 - Typically, emission factors are used to estimate process emissions as follows:

$$E = A \times EF \times [1 - (ER/100)]$$

Where:

E = emissions estimate

A = activity rate

EF = emissions factor

ER = overall emissions reduction achieved by controls (%).

AP-42/WebFIRE Background (pt 2)

- Uses of Emission Factors
 - Develop emissions estimates for processes and activities in cases where direct measurements are not available
 - Emission factors typically represent long term (e.g. annual) average emissions and the data are based on emissions testing collected during normal process operating conditions
 - EPA's emission factors represent national averages and are intended for use in regional and national emission inventories when valid site-specific information are not available
 - Recommend site-specific stack testing for other uses (e.g., permitting, applicability, emission limits)

AP-42/WebFIRE Background (pt 3)

AP-42: Compilation of Air Pollutant Emissions Factors from Stationary Sources

- EPA's primary compilation of EPA's emission factor information
- Published since 1972
- Contains emission factors, emission factor references, and process information for more than 200 air pollution source categories

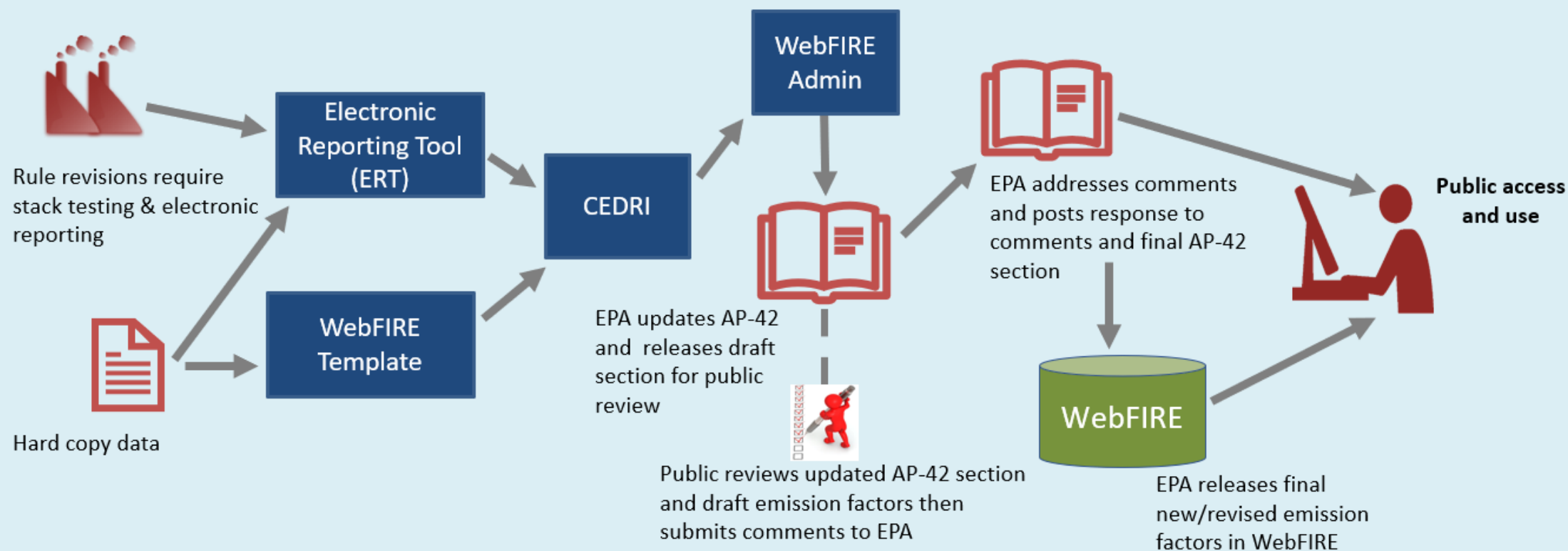
WebFIRE: Web Factors and Information Retrieval System

- EPA's online database that contains emission factors for criteria and hazardous air pollutants and multiple reports submitted to EPA using the Compliance and Emissions Data Reporting Interface (CEDRI)
 - WebFIRE contains most emission factors available in AP-42 as well as archive emission factors from previous EPA documents/databases such as the Locating & Estimating document series, the AIRS Facility Subsystem Emission Factors database and the Crosswalk/Air Toxics Emission Factors database
 - WebFIRE Admin module receives stack test data from CEDRI and creates potential draft emission factors
- AP-42 and WebFIRE work in tandem – when we release new factors in WebFIRE, we also release an updated AP-42 section
 - EPA is aware of and is working to resolve discrepancies between AP-42 and WebFIRE

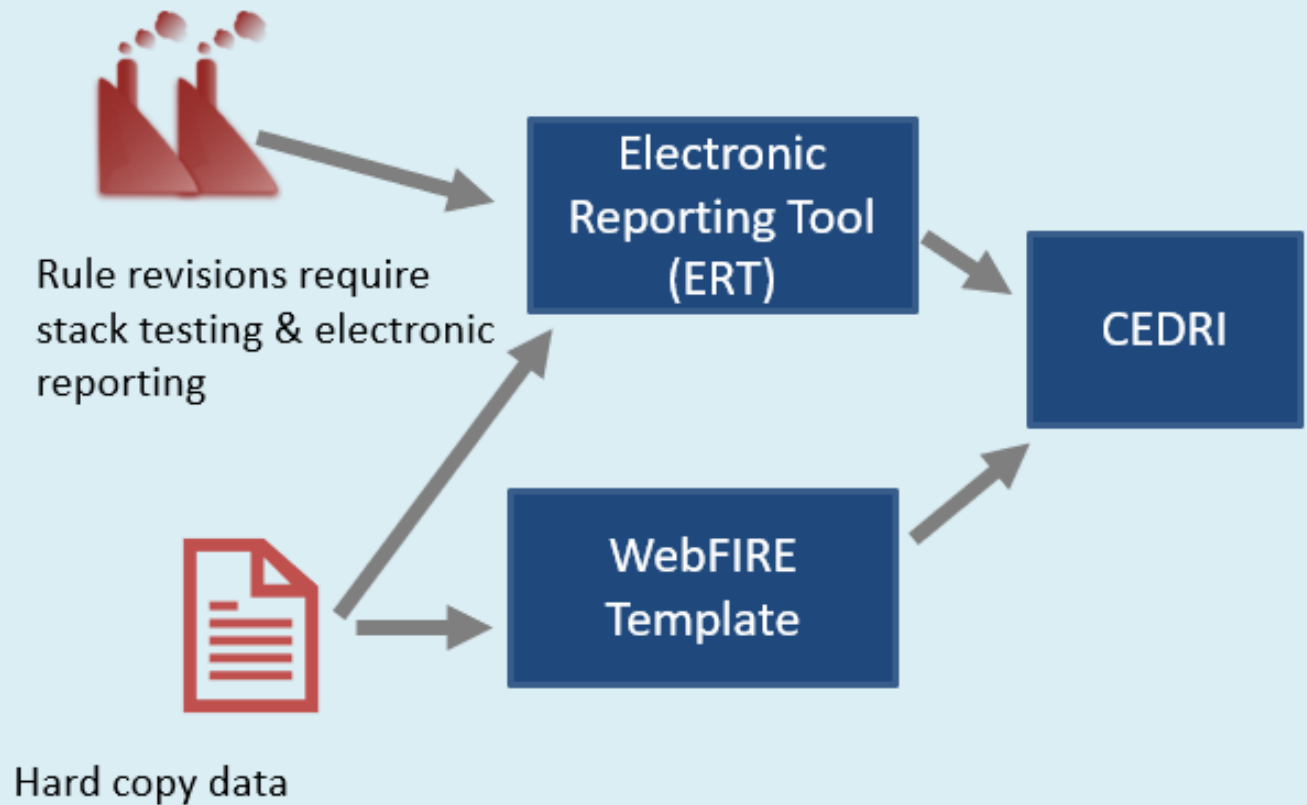
General Overview

- Prior to 2003, EPA's emission factor development process was extremely subjective in nature
- To increase transparency and ensure accuracy, our current emission factor development approach relies heavily on the electronic submission of stack test reports through the Electronic Reporting Tool
 - Rule revisions require electronic reporting of stack test reports
 - EPA will also enter PDF or hard copy data into the ERT or WebFIRE template (e.g. old ICR data)
- WebFIRE receives data from stack test reports through CEDRI and calculates potential new or revised emission factors
- Appropriate AP-42 section is revised with updated process information, if necessary, and draft emission factors
- Draft AP-42 section with draft new/updated emission factors are released for public comment via EPA's AP-42 Drupal Page & notifications are sent out through the CHIEF listserv
- EPA addresses public comments, posts final AP-42 chapter and releases draft emission factors to WebFIRE

General Data Flow



Step 1: Gathering the Data



Gathering the Data

- Two main avenues to get data:
 1. Industry submitted stack test data (ERT)
 2. Hard copy or PDF data manually entered into the ERT or WebFIRE template by EPA
- Emission factors are heavily reliant on rule revisions and available data
- The ERT/WebFIRE template calculates an objective quality rating for the test data and supporting documentation that assesses the quality of the process, control device and measurement data collected during an emissions test
- The ERT/WebFIRE Template is submitted, either by industry or by EPA, to CEDRI
- CEDRI parses the stack test data and sends to WebFIRE Admin

WebFIRE Admin

Step 2: Emission Factor Creation and Review

Emission Factor Creation and Review

- WebFIRE Admin receives parsed stack test data from CEDRI
- For each submission, WebFIRE calculates the average of the test run values and assigns a detection limit flag to the averages as follows:
 - All test runs above detection limit (ADL) = calculate the average and assign a value of ADL
 - Test runs are a mix of ADL and detection level limited (DLL) or all DLL = calculate the average and assign a value of DLL
 - All test runs are below detection limit (BDL) = calculate the average using the BDL/2 test run values and assign a BDL flag
 - Test runs are a mix of ADL (or DLL) and BDL = calculate the average value excluding the BDL/2 test run values that are greater than the highest ADL (or DL) value and assign a DLL flag

Emission Factor Creation and Review (pt2)

- Data are grouped by Source Classification Code (SCC), pollutant, control device configuration and units
- When more than 3 values in the subject data set, data go through a statistical outlier test to determine if there are any outliers:
 - Dixon Q Test – For dataset with 25 or less values
 - Rosner Test – For dataset with more than 25 values
- After the outlier test, an emission factor value is calculated using the average emission values that result in the highest quality rating and the most representative factor for the source category of interest and then a quality rating is assigned to the resulting emission factor
 - The quality rating is based on the number of test reports used in relation to the size of the source category and the individual report ratings
 - WebFIRE will not calculate a factor with fewer than 3 data points and when all data are BDL

Emission Factor Creation and Review (pt 3)

- EPA reviews potential factors created by WebFIRE and determines which AP-42 section to update next
 - There are a number of factors that go in to determining the section of interest: court ordered deadlines, new ICR data received, availability of data, etc.
- EPA creates list of potential factors and does initial round of QA
 - This stage typically kicks out the most potential factors due to restrictions (must have more than 3 data points included in the emission factor calculation, must have data from more than one facility, data must improve current factor quality rating (if replacing an existing factor), data must be collected using EPA approved test methods and revised factors can only be changed if the change is greater than 10% or the quality rating is higher)
- Factors go through internal review
 - Reviewed by rule leads, emission inventory group, policy division and management
 - Some factors get kicked out at this stage

EPA updates AP-42
and releases draft
section for public
review

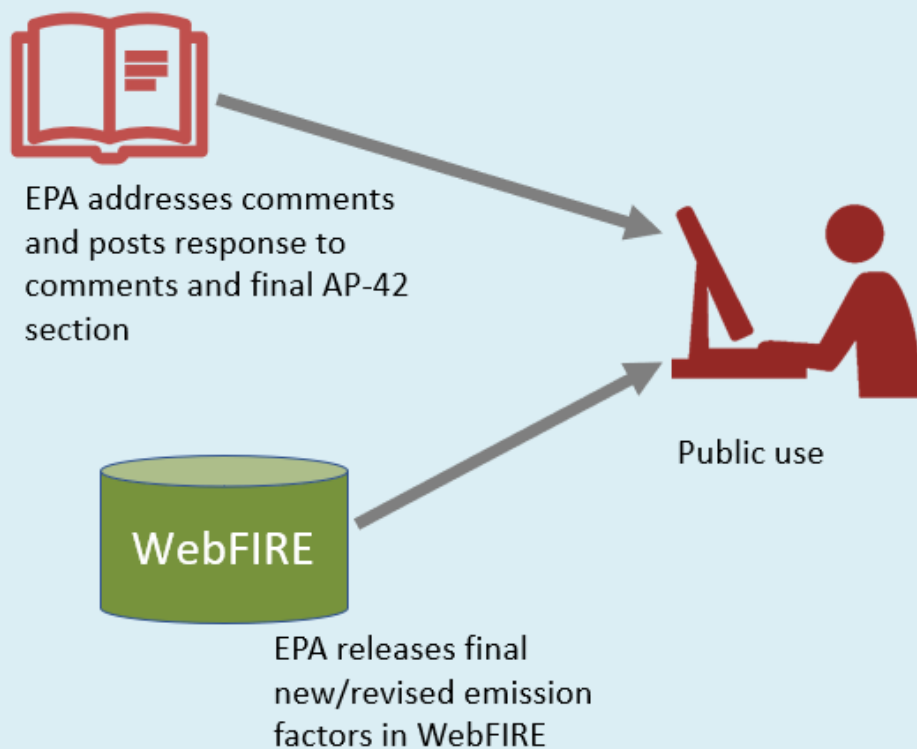


Public reviews updated AP-42 section
and draft emission factors then
submits comments to EPA

Step 3: EPA Releases Draft AP-42 Section for Review

EPA Releases Draft AP-42 Section

- EPA prepares AP-42 section to draft
 - Update process information, if applicable
 - Update relevant SCCs
 - Add draft factors
- EPA posts draft AP-42 chapter, a spreadsheet with all draft factors as well as reference data for each new factor on AP-42 website and sends out a CHIEF Listserv email announcing the start of the public comment period
 - To sign up for the CHIEF Listserv, email: chief_info@epa.gov
 - Typically a 60-day comment period, extensions can be granted
 - Comments can be emailed to efcomments@epa.gov



Step 4: EPA Releases Final AP-42 Section and Emission Factors

EPA Releases Final AP-42 Section and Emission Factors

- EPA responds to comments and then posts the response to comments and final AP-42 section on the AP-42 drupal site
- A CHIEF Listserv message is sent out alerting the posting of the final section
- The new/revised emission factors are made available in the public WebFIRE emission factor search

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>

Contact Information

chief_info@epa.gov