



Agenda

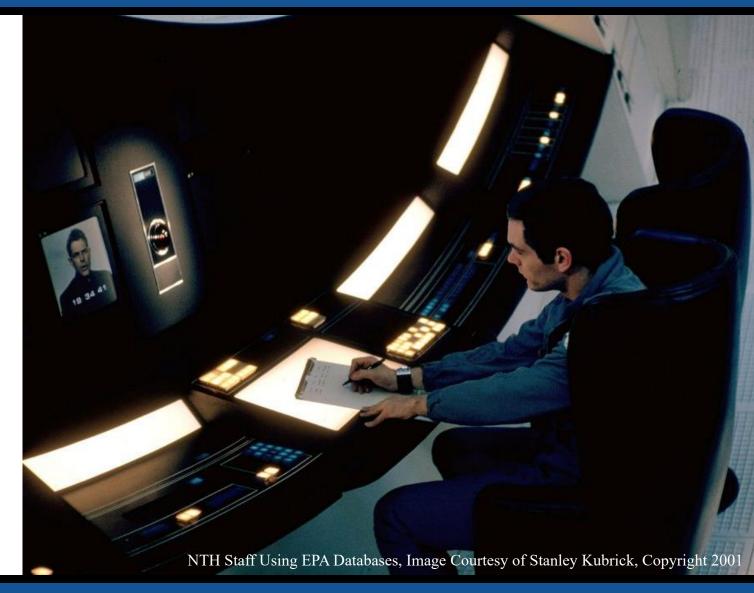
U.S. EPA's CEDRI System

- What is it?
- My history with CEDRI
- Who needs to use CEDRI?
- How do we report to CEDRI?

ERT

- What is that?
- How do we use it?
- Why is it such a pain?

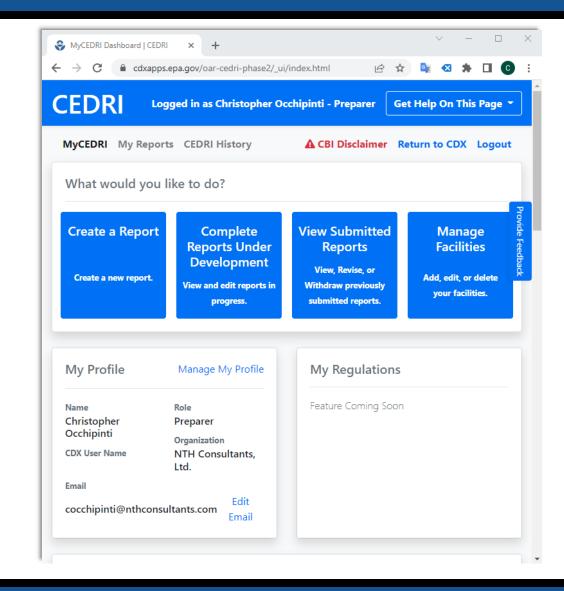
Questions





What is CEDRI?

Compliance and Emissions Data Reporting Interface (CEDRI)

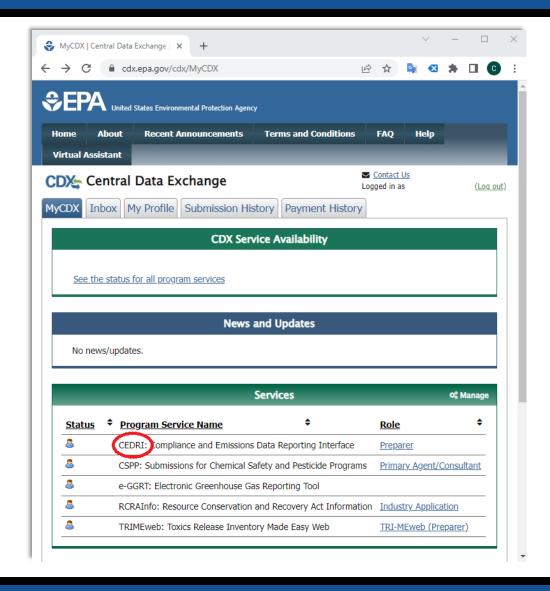




What is CEDRI?

Compliance and Emissions Data Reporting Interface (CEDRI)

Part of U.S. EPA's <u>Central Data Exchange (CDX)</u>, used to submit the following items for compliance with various federal rules.



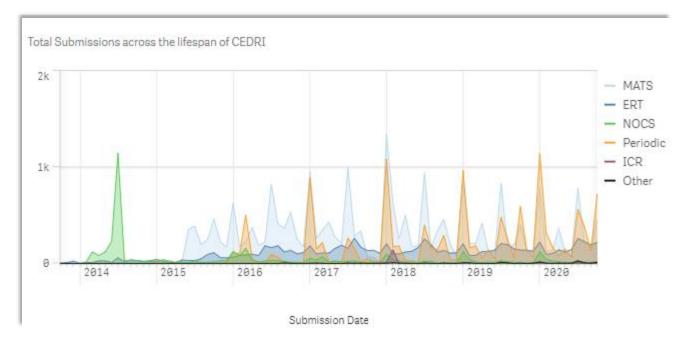


What is CEDRI?

Compliance and Emissions Data Reporting Interface (CEDRI)

Part of U.S. EPA's Central Data Exchange (CDX), used to submit the following items for compliance with various federal rules:

- Test Results through Emissions Reporting Tool (ERT)
- Information Collection Requests (ICRs)
- Notifications
- Periodic Reports



Reference: U.S. EPA CEDRI Information Page, 4/21/2022



My History With CEDRI and ERT

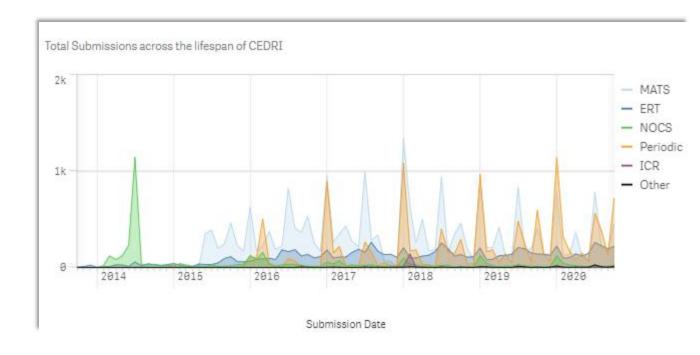
2007 – 2008 Stack Testing with Boiler MACT ICRs, which required the use of ERT for data entry.

2010 – Worked with the folks who designed and maintain the ERT database for U.S. EPA.

2011 – Continued work using ERT, now at NTH

2012 - CEDRI comes online for submitting ERT and initial notifications for certain rules.

2022 – Yup, still at it. More rules than ever.





Who Needs to Use CEDRI?

The list of supported rules continues to expand, so maybe <u>you!</u>

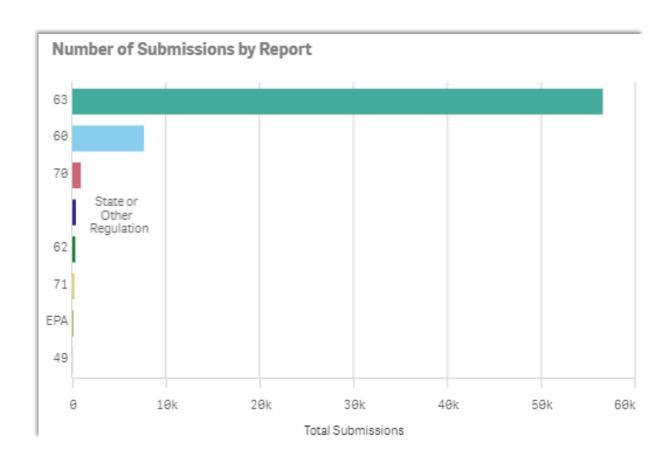
Currently certain rules within 40 CFR:

- Part 63: National Emission Standards for Hazardous Air Pollutants (NESHAPS)
- Part 60: New Source Performance Standards (NSPS)
- Part 62: Federal Plan Requirements for Existing Stationary Sources
- Other Federal, State, Tribal rules under Parts 70, 62, 71, and 49 and/or EPA internal programs (Anybody in this room?)

Michigan:

Annual compliance certification (pursuant to Rule 213(4)(c)) must also be sent to the USEPA <u>or</u> be submitted through the USEPA's Compliance and Emissions Data Reporting Interface (CEDRI)...







Part	Subpart	Rule Name (Rule Webpage Linked)	Reports Required to be Submitted in CEDRI	Electronic Format (ERT: Electronic Reporting Tool Upload, Excel: Spreadsheet Template Upload, PDF: File Upload, XML: Extensible Markup Language Upload)	Initial Report Availability Date	Last Update Date of Report Template	Report Template or ERT Version Accepted in CEDRI	Available Spreadsheet Template or XML Schema
60	1111	Stationary Spark Ignition Internal	60.4245(e)(3) Annual Report (Spreadsheet Template	XML	2015	None	1.XX	XML Schema (XSD) (7 K)
		Combustion Engines	Option)	Excel	2/2016	5/15/2020	2.XX	60.4245(e)(3) Annual Report - Bulk Upload Template (XLSX) (361 K)
			Supplemental Templates for Annual Report (can use as attachments to Annual Report)	Excel	2015	1/20/2017	Not Applicable	Emergency Demand Response Use Summary (XLSX) (11 K) Non-Emergency Use Summary (XLSX) (18 K) Voltage or Frequency Deviation Summary (XLSX) (11 K)
60	LL	Metallic Mineral Processing Plants	60.385(a) Results of the Performance Tests	ERT	Prior to 2015	Not Applicable	6.0, 5.0	Not Applicable
60	LLLL	New Sewage Sludge Incineration Units	60.4915(i)(2) Relative Accuracy Test Audit and Performance Test Data	ERT	1/1/2012	Not Applicable	6.0, 5.0	Not Applicable
60	ММММ	Emission Guidelines and Compliance Times for Existing Sewage Sludge Incineration Units	60.5235(h)(2) Relative Accuracy Test Audit and Performance Test Data	ERT	1/1/2012	Not Applicable	6.0, 5.0	Not Applicable



Who Needs to Use CEDRI?

- Example: 40 CFR 60, Subpart JJJJ for Spark Ignition Engines
- Annual Report is on the previous list; however upon checking the rule it's only required in some cases:
 - (e) If you own or operate an emergency stationary SI ICE with a maximum engine power more than 100 HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 60.4243(d)(2)(ii) and (iii) or that operates for the purposes specified in § 60.4243(d) (3)(i), you must submit an annual report according to the requirements in paragraphs (e)(1) through (3) of this section.
- The report needs to be submitted if it is used for various non-testing and non-emergency purposes (NERC capacity, demand response, voltage regulation, etc.) *

^{*}I'm oversimplifying, so consult the rule for details.



How do we report using CEDRI?

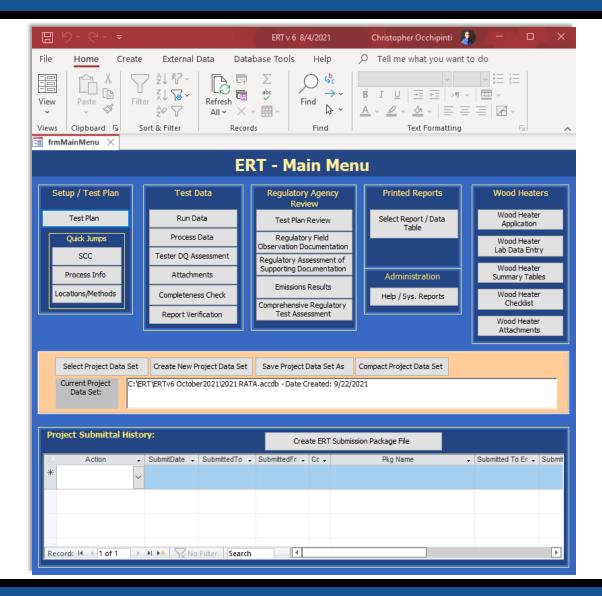
For Notifications and Periodic Reports, we populate and upload <u>template spreadsheets</u>

Part 63 - N	lational Emi	ssion Standards for Hazardou	s Air Pollutants for Sour	ce Catego	ries Subpart ZZZ	Z - Stationary R	Reciproc	ating Internal Combust	tion Engines - 63.6650(h)(3) Annı	al Report	
* Required Field												
ENGINE INFORMATION												
Engine Record No. *	Company Record No.	. Engine Description	Engine Site Rating * (Brake Horsepower) (§63.6650(h)(1)(iii))	Engine Model Year * (§63.6650(h)(1)(iii))		Latitude of the Engine * (§63.6650(h)(1)(iv))		Longitude of the Engine * (§63.6650(h)(1)(iv))	Did you use this engine purpose specified §63.6640(f)(4)(ii): 50 ho year for non-emerg situations? *	in ours per	Were there deviations from th fuel requirements §63.6604? *	
Engineld	RecordId	EngineDescription	EngineRating	EngineYe	ar	EngineLatitude		EngineLongitude	NonEmergencyFlag		DeviationFlag	
e.g.: 1	e.g.: 1	e.g.: Engine 1	e.g.: 100	e.g.: 2020)	e.g.: 12.12345		e.g.: -12.12345	e.g.: Yes		e.g: No	
Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories Subpart ZZZZ												
•												
		ocating Internal Combu	stion Engines - 63.6	5650(h)(3) Annual Re	port						
* Requir	red Field				NON-EM	ERGENCY U	SE SU	MMARY				
Engine Record No. *		Non-Emergency Use Event Begin Date *	Non-Emergency Use Event Begin Time *		Non-Emer Event En	gency Use d Date *	Non-Emergency Use Event End Time *		Entity who dispatched the engine *	Situation that necessitated the dispatch of the engine *		
EngineId		NonEmergencyStartDate	NonEmergencyStartTime		NonEmerger	ncyEndDate	NonE	mergencyEndTime	DispatchEntity	DispatchReason		
e.g.: 1 e.g.:		e.g.: 02/01/2020	e.g.: 15:00		e.g.: 02/02/2	02/2020 e		15:00	e.g.: Dispatcher	.g.: Dispatcher e.g.: Er		
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How do we report using CEDRI?

For Performance (Stack) Test and Relative Accuracy Test Audit (RATA) data, we have to generate a report using the **Emissions Reporting Tool (ERT)**





What is ERT?

Emissions Reporting Tool (ERT)

- Microsoft Access database software
- Electronically creates test plans and reports
- Calculates results from imported or hand-entered data

Intended to standardize test data into a format that would directly interface with U.S. EPA's WebFIRE database.

60 days after upload, the files become available to the public in WebFIRE.

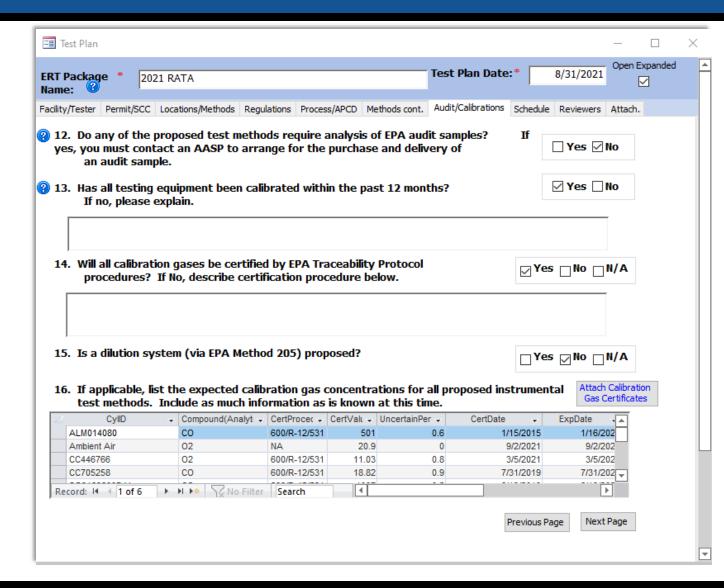
This allows EPA to take test data and use it in rulemaking, emission factors, etc.





What is the Process for Using ERT?

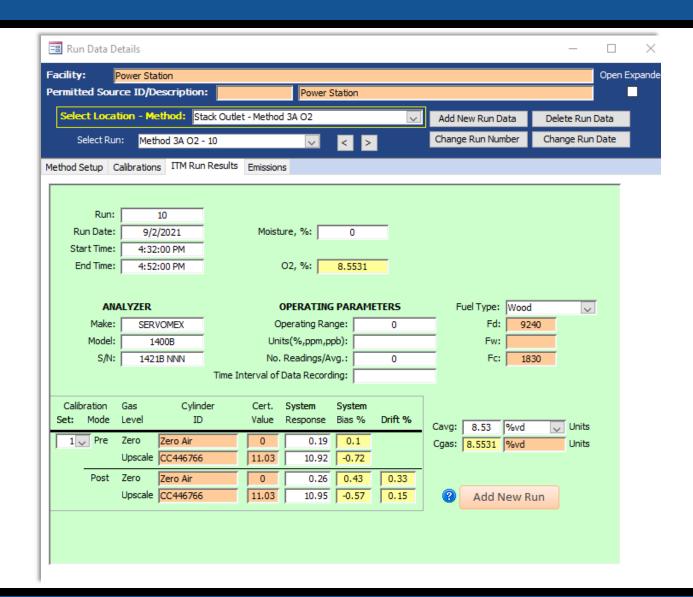
- 1. Decide who will be using it (testing firm?, consultant?, you?)
- 2. Generate a test plan, including:
 - Facility and test company info
 - Regulatory information
 - Test methods (~60 methods supported)
 - Manual methods
 - Analyzer test methods (including RATAs)
 - Test, laboratory, calibration gas, and process parameters





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 - Test methods (~60 methods supported)
 - Manual methods
 - Analyzer test methods (including RATAs)
 - Test, laboratory, calibration gas, and process parameters
- 3. Conduct testing
- 4. Import test data into ERT for:
 - Calibrations
 - Analyzers
 - Process conditions
 - Control device operations
 - Lab analytical data
- 5. Attach files, compare ERT results to test report, and upload to CEDRI





"Quirks" of ERT

Submitting with ERT sounds easy enough, right?

Originally intended to be used by stack testers in the field. In a perfect world that would save time; however:

- U.S. EPA still wants paper records for traceability
- Doesn't support certain methods (18, 320, etc.)
- ERT is tricky to adapt quickly
- Must attach supporting data anyway
- Result: Most testers don't use it during the test

Updated frequently, so you have to build your report from scratch.

- Want to recycle some facility info from last year's test?
- "I'm sorry Chris, I'm afraid can't do that."

