



**Florida Department of Environmental Protection**

# **AirCom**

**DARM's New Compliance and Enforcement  
Database and Field Inspection Tool**

**Justin B. Green, Director  
Florida Department of Environmental Protection  
Division of Air Resource Management**





# What is AirCom

- New compliance assurance database and field inspection tool
- New location for data reports
- New public compliance and enforcement interface
- Replaces multiple existing applications



# Why AirCom?

- Previous Databases had multiple issues
  - Old technology
    - Not user friendly
    - Required deletion and reinstallation of old application when updating
    - Hard to maintain – obsolete technology
  - Multiple applications were used to perform various functions
    - Costly to maintain
    - Data not updated between systems
  - Did not collect federally-required data and required extensive manual manipulation of data before uploading
  - Was not used uniformly across state
    - Had to incentive use
    - Led to inconsistent CA processes
  - No workload planning or tracking functionality



# Why AirCom?

## Old System Screenshot

Florida Department of Environmental Protection - Enterprise Applications

poll Test Cng fac/poll Oper rates Aircom poll Inv Help Return eXit Window ORACLE

Compliance Assurance Tracking System - Emission Unit Pollutant Test

ARMCA055

POINT AIRS ID: 0570039 Status: A Owner: TAMPA ELECTRIC COMPANY (TEC)  
Office: SWHI County: HILLSBOROUGH Name: BIG BEND STATION  
CA TRPT Activity STR STACK TEST REPORT Due 08/10/2014 Done 08/04/2014 CS IN

EU ID 003 Description Fossil Fuel Fired Steam Generator Unit No. 3  
Pollutant NH3 Ammonia Allow Seq 001  
Comp Test Fr ANNUALLY Freq Base Dt 09/15/2008

Test Details

Test Date \* 05/28/2014 Audit Type \* 2 Witnessed Part of Test & Test Report Re Result \* P  
Receive Dt 07/11/2014 Review Dt 08/04/2014 Next Test Dt 09/15/2015  
Test Point  
Test Meth Team

Test Details

Test Allow 10.000000 Unit 98 TEST REQUIRED (NO ALLOWABLE EMISSION)  
Actual 2.000000 Unit 98 TEST REQUIRED (NO ALLOWABLE EMISSION)  
Permit Allow 10.000000  
% of Test Actual Above/Below Test Allow -80.00  
Comment

FRM-41067: Cannot find Menu Item: invalid ID.  
Record: 1/1



# Key AirCom Features

- Seamless updates
- New, easy to maintain technology
  - Application owned by state and can be maintained by state IT staff
- User-friendly tabbed browsing
- Web based and can be used on desktop, laptop, tablet, and phone
- Allows for use in the field whether or not internet connection is available
  - “Hybrid” approach allows for generation of a custom inspection PDF that can be used to enter data on a tablet
  - AirCom will then extract data from PDF and automatically enter results into system
  - PDF can also be printed out and used for manual entry of inspection results

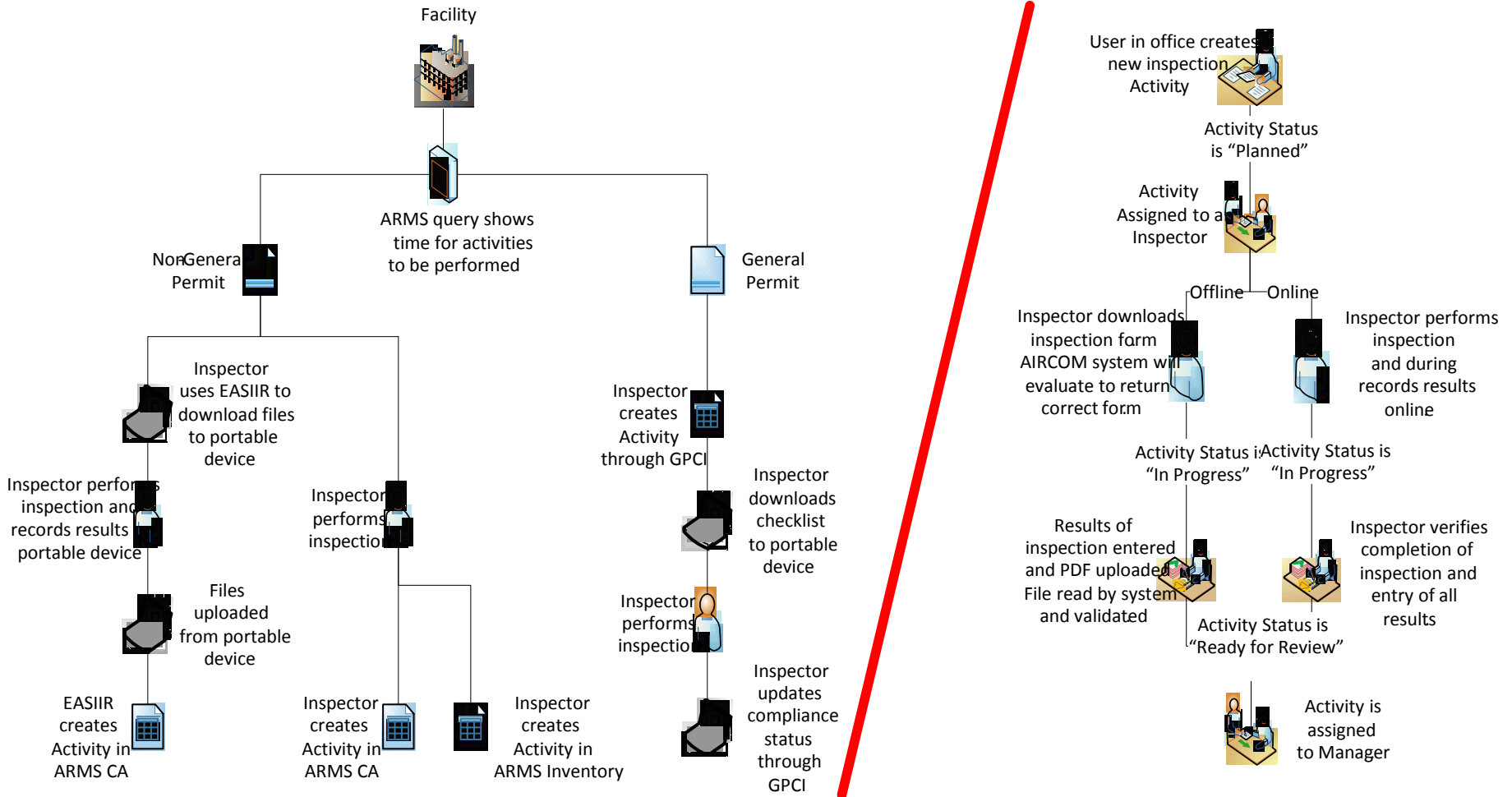


# Key AirCom Features

- Single application reinforces consistent CA processes across state
- Designed to ensure all federally-required data is collected and quality assured
  - System will check activity data to ensure all required data is entered
  - System will alert user when observations exceed allowable values – Ensures noncompliance accurately documented
- Easy workload management
  - Activities can be created and planned for future date
    - System has “Planned,” “In Progress,” and “Completed” statuses
  - Once activity results are entered, activity moves to “In Progress”
    - Automated emails will remind staff if activities are pending and not yet completed
- Second-level review
  - When activity is completed, can be marked “Ready for Review” to be sent to manager
    - Not all activities require management review



# Key AirCom Features





# How AirCom Works



## DEP BUSINESS PORTAL

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[Air Compliance](#)

### Home

#### Search Criteria

##### Search by Facility

AIRS ID:

Owner/Company Name:

Compliance Office:

- CDOR-Cen: ORANGE
- CD-Cen: ORLANDO
- NEDB-NE Br: GAINESVILLE
- NEDV-NE: DUVAL

Facility/Site Name:

Press and hold down the Ctrl key, and then click each item that you want to select/deselect.

Status:

County:

Facility Reg Class:

Zip Code:

Address:

City:

#### Activity Criteria

Compliance Status:

Date Performed From:  To:

Compliance Category:

Date Due From:  To:

Activity Type:

Activity Status:

Assigned Staff:

#### Violation Criteria

Violation Status:

Date Discovered From:  To:



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Air Compliance

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[Home](#) > [Search Facility](#) > [Facility Search Results](#) > [Facility Activity](#) > [Sources](#) > [EU Compliance Status](#)

**EU Compliance Status** [Capacity / PTE](#) [Pollutant / Emissions](#) [Visible Emissions](#) [Monitoring](#) [Permit Conditions / Other](#)

General

AIRS ID: 0010001  
Owner/Company Name: FLORIDA POWER CORPORATION D/B/A PROGRESS  
County: Alachua  
EU Number: 1.0  
Compliance Category: INSP-INSPECTION  
Activity Type: INS2-Compliance Inspection, Walk Through

Facility/Site Name: U OF FL COGEN,11G ORADEVV  
Facility Status: ACTIVE  
Compliance Office: NED  
EU Description: GE LM6000-PA Combustion Turbine  
Activity Status: In Progress

[View Permit Document\(s\)](#)

Emissions Unit Compliance

Status: \*  EU Not Operating  IN COMPLIANCE  MINOR NON COMPLIANCE  SIGNIFICANT NON COMPLIANCE

EU Comments:

[Save](#)

[Reset](#)

[Back To Activity Source List](#)



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[EU Compliance Status](#) [Capacity / PTE](#) [Pollutant / Emissions](#) [Visible Emissions](#) [Monitoring](#) [Permit Conditions / Other](#)

**General**

AIRS ID: 0010001  
 Owner/Company Name: FLORIDA POWER CORPORATION D/B/A PROGRESS  
 County: Alachua  
 EU Number: 1.0  
 Compliance Category: INSP-INSPECTION  
 Activity Type: INS2-Compliance Inspection, Walk Through

Facility/Site Name: U OF FL COGEN,11G ORADEVV  
 Facility Status: ACTIVE  
 Compliance Office: NED  
 EU Description: GE LM6000-PA Combustion Turbine  
 Activity Status: In Progress

[View Permit Document\(s\)](#)

**Pollutant/Emissions**

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Pollutant	Description	Allowable Sequence #	Emissions	Equivalent Emissions (LB/HR)	Test Date	Next Test Due Date	Operation(s)
SO2	Sulfur Dioxide	2	Allowable: .5 Observed:	208	09/24/2002		<a href="#">Edit</a>
CO	Carbon Monoxide	3	Allowable: 75 Observed:	70.5	09/24/2002	09/24/2003	<a href="#">Edit</a>
CO	Carbon Monoxide	3	Allowable: 42 Observed:	70.5	09/24/2002	09/24/2003	<a href="#">Edit</a>
CO	Carbon Monoxide	3	Allowable: 12 Observed:	70.5	09/24/2002	09/24/2003	<a href="#">Edit</a>
NOX	Nitrogen Oxides	2	Allowable: 25 Observed:	66.3	09/24/2002	09/30/2003	<a href="#">Edit</a>
NOX	Nitrogen Oxides	2	Allowable: 42 Observed:	66.3	09/24/2002	09/30/2003	<a href="#">Edit</a>
VOC	Volatile Organic Compounds	1	Allowable: Observed:				<a href="#">Edit</a>
PM	Particulate Matter - Total	1	Allowable: Observed:				<a href="#">Edit</a>
PM10	Particulate Matter - PM10	1	Allowable: Observed:				<a href="#">Edit</a>

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**Edit Pollutant**

Pollutant: SO2  
 Description: Sulfur Dioxide  
 Equivalent Emissions (LB/HR): 208 (TPY): 23  
 Compliance Method Code: FUEL SAMPLING  
 Frequency Base Date:  
 Last Test Result: Pass  
 Compliance Method: FUEL SAMPLING  
 Allowable Emissions: .5

Allowable Sequence #: 2  
 CAS #: 7446-09-5  
 Test Methods:  
 Test Frequency: NONE REQUIRED  
 Test Date: 09/24/2002  
 Next Test Due Date:  
 Allowable Comments: While firing Fuel Oil. For Natural Gas see permit condition A.15.  
 Observed Emissions:

[Save](#) [Reset](#) [Back To Activity Source List](#)



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### Home

[Home](#) > [Search Facility](#) > [Facility Search Results](#) > [Facility Activity](#) > [Violation](#)

[Activity](#) [Assign Staff](#) [Sources](#) [Comments](#) [Document Management](#) [Violation](#)

#### General

AIRS ID:

Owner/Company Name:

County:

Compliance Category:

Activity Type:

Activity Perform Date:

Facility/Site Name:

Facility Status:

Compliance Office:

Activity Status:

Compliance Status:

#### Violations Linked to this activity

No Results found.

#### Violation

What do you want to do?  Create New Violation  Link to existing Violations  Quick Resolve

Violation Status :

#### Link to Existing Violations

Select All <input type="checkbox"/>	Violation Number	Discovered Date	Violation Date	# Days Open	Status	Violation Office	Description	Operation(s)
<input type="checkbox"/>	9460	09/10/2015	09/10/2015	0	Open	NED		<a href="#">View</a>



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# Offline Fillable PDF Inspection Form



## FLDEP Non-General Permit Air Inspection

<b>SITE NAME:</b>	WHITEHOUSE LUMBER OPERATIONS	<b>AIRS ID:</b>	0310197
<b>OWNER/COMPANY NAME:</b>	WEST FRASER, INC.	<b>COUNTY:</b>	Duval
<b>SITE ADDRESS:</b>	109 HALSEMA ROAD SOUTH	<b>TITLE V:</b>	Y
<b>COMPLIANCE OFFICE:</b>	NE - DUVAL	<b>COMPLIANCE CATEGORY:</b>	INSP-INSPECTION
<b>ACTIVITY TYPE:</b>	INS2-Compliance Inspection, Walk Through	<b>INSPECTION PERFORM DATE:</b>	06/14/2014

FACILITY CONTACT INFORMATION						
First Name	Middle Name	Last Name	Title	Phone Number	Email	Primary Contact
William	David	Miller	Chief Engineer	850-555-1212	dmiller@fakeemail.com	Yes <input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

REGULATED EMISSION UNIT(s) CONDITIONS	
<b>EU#</b>	1
<b>EU Description</b>	Wood Drying kiln No. 1(Middle)
<b>Status:</b>	In Compliance
<b>EU Comments:</b>	Kiln working as expected

**Capacity/PTE EU # 1**

Max Heat Input: 15.0	Max Throughput Rate: 0.0
Schedule: 8760HY,DW,HD,WY	Max Production Rate: 0.0
Max Incin Rate: 0.0	Capacity Comment: FOR WOOD--2.20 MMBTU/HR. OF PROPANE

<b>SCC #:</b>	39001099
<b>Process/Fuel Description:</b>	1000 Gallons Liquefied Petroleum Gas (LPG) Burned
<b>Comments:</b>	PROPANE GAS BURNED - EF=1-03-010-02
% Ash Limit:	1
% Sulfur Limit:	2
Hourly Rate Limit:	3
Annual Rate Limit:	4

<b>SCC #:</b>	39000699
<b>Process/Fuel Description:</b>	Tons Wood Burned
<b>Comments:</b>	WOOD SHAVINGS BURNED
% Ash Limit:	5
% Sulfur Limit:	6
Hourly Rate Limit:	7
Annual Rate Limit:	8

<b>SCC #:</b>	30700898
<b>Process/Fuel Description:</b>	DRYING KILN NO.1
<b>Comments:</b>	1000 Board Feet Material Processed DRYING OF GREEN LUMBER



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### Air Compliance

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Compliance Office:

Your query returned 29 record(s).

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AIRS ID	Facility Name	Activity Creation Date	Date Performed	Compliance Category	Activity Type/Description	Due Date	Activity Status	Initial Compliance Status	Current Compliance Status	Operation(s)
0090001	JAMES HOLMES MEDICAL CENTER	05/20/2015		INSPECTION	INS1/Compliance Inspection, Drive By	05/22/2015	Planned			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>
0730073	CHROMALLOY-TALLAHASSEE	06/02/2015		INSPECTION	INS2/Compliance Inspection, Walk Through	06/04/2015	Planned			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>
0730073	CHROMALLOY-TALLAHASSEE	06/02/2015		INSPECTION	INS2/Compliance Inspection, Walk Through	06/04/2015	Planned			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>
0570057	ENVIROFOCUS TECHNOLOGIES, LLC	06/13/2015		INSPECTION	FR/File Review	01/01/2016	Planned			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>
0570057	ENVIROFOCUS TECHNOLOGIES, LLC	06/13/2015		INSPECTION	FR/File Review	06/12/2017	Planned			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>
0570057	ENVIROFOCUS TECHNOLOGIES, LLC	06/15/2015		INSPECTION	INS2/Compliance Inspection, Walk Through	01/01/2016	Planned			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>
0730073	CHROMALLOY-TALLAHASSEE	06/02/2015		INSPECTION	INS2/Compliance Inspection, Walk Through	06/04/2015	In Progress			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>
0010001	U OF FL COGEN	05/31/2015	05/31/2015	INSPECTION	INS2/Compliance Inspection, Walk Through	05/31/2015	In Progress			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>
0730073	CHROMALLOY-TALLAHASSEE	05/28/2015	05/28/2015	INSPECTION	TCOMP/test comp Activity52815	05/28/2015	In Progress			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>
0730003	ARVAH B. HOPKINS GENERATING STATION	04/29/2015	04/29/2015	TEST AND REPORTS	MRR/Miscellaneous Report Review	04/29/2015	In Progress			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>
0730003	ARVAH B. HOPKINS GENERATING STATION	04/26/2015	04/26/2015	TEST AND REPORTS	STR/Stack Test Report Review	04/26/2015	In Progress			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>
0730003	ARVAH B. HOPKINS GENERATING STATION	04/22/2015	04/22/2015	RESOLUTION	COE/Consent Order Executed	04/22/2015	In Progress			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>
0730003	ARVAH B. HOPKINS GENERATING STATION	04/20/2015	04/20/2015	RESOLUTION	MCOE/Model Consent Order Executed	04/20/2015	In Progress			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>
0730003	ARVAH B. HOPKINS GENERATING STATION	04/13/2015	04/13/2015	INSPECTION	INS2/Compliance Inspection, Walk Through	04/13/2015	In Progress			<a href="#">View/Edit Activity</a> <a href="#">Delete Activity</a>

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Welcome **Dashboard**

Number of Days >

VIOLATIONS OPEN > 45 DAYS CHART AS OF 09/10/2015

OFFICES	NUMBER OF VIOLATIONS
CD	3
CDOR	1
NED	4
NEDV	2
NWD	3
SED	1
SEDA	7
SWD	3
SWHI	4
SWSA	2

Compliance Office:

OPEN HPVs FROM DAY ZERO AS OF 09/10/2015

DAY RANGE	NUMBER OF HPVs
0-60	3
61-90	0
91-120	0
121-150	0
151-170	0
171-175	0
176-180	0
180+	5


Compliance Office:

STACK TEST REPORT TRACKER FOR IN PROGRESS OR READY FOR REVIEW AS OF 09/10/2015



DAY RANGE	NUMBER OF STACK TEST REPORTS
45-90	0
91-110	0
111-120	0
120+	4

FCE TRACKER AS OF 09/10/2015

OFFICES	FCEs on CMS Plan	FCEs Performed
CD	33	2
CDOR	14	0
NED	31	0
NEDB	0	0
NEDV	0	0
NWD	7	8
NWDP	1	0
NWDT	7	4
SD	15	9
SEBR	2	0
SED	15	4
SEDA	10	14
SEPB	15	0
SWD	32	10
SWHI	23	13
SWPN	3	0
SWSA	4	0
STATEWIDE	228	15



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[Register](#) | Already have an account? [Sign In](#)[Home](#)**Search Criteria****Search by Facility Characteristics**Report Type: Facility ID: Facility/Company Name: SIC Code: 

OR

SIC Description: Facility Type: 

Press and hold down the Ctrl key, and then click each item that you want to select/deselect.

OR

Industry Group: NAICS Code: Designation(s): 

Press and hold down the Ctrl key, and then click each item that you want to select/deselect.

 Include Inactive Facilities**Search by Geographic Location**Compliance Office: 

Press and hold down the Ctrl key, and then click each item that you want to select/deselect.

OR

County: Address: City: Zip Code:



# Process

- Analysis of existing systems and database needs
  - Do existing systems meet existing needs and if not, can they be modified?
- Joint requirement planning meetings
  - Time where agency relays needs to developer
  - Developer would create mockups to start dialogue
- Application Development
- Testing
- Go live (August 2014)





# Keys To Successful Development

- Team
  - Knowledgeable field staff
  - Data quality assurance manager
  - Policy staff
  - Decider
- Contractor
  - History of successful projects
  - Open communications regarding status of project
    - What is working and what is not
- Preparation
  - Pre-joint requirement planning meetings





# Early Successes

- 100% compliance with internal data entry timelines within 6 months of going live statewide
- Less time needed to format data for EPA upload
- Less manual quality assurance needed
- Improved oversight of statewide compliance and enforcement activities



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