

# CORROTEC INCORPORATED SPRINGFIELD, OHIO

Serving the Surface Finishing Industry



BENJAMIN STRATTON, CORROTEC, INC

# **REGULATORY UPDATE: ISSUES FACING FLORIDA SURFACE FINISHERS**

**AND RESOURCES AVAILABLE FOR COMPLIANCE**

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# ROAD MAP



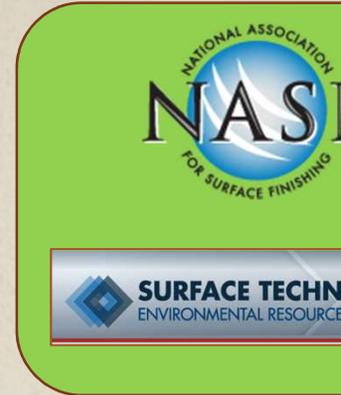
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## RESOURCES

# **BIG PICTURE**

**REDUCED REGULATION IS NOT THE SAME AS  
NO REGULATION.**

**DATA NOT YET CLEAR ON EFFECTS OF  
DEREGULATION.**

**YOU HAVE RESOURCES AVAILABLE TO HELP.**

**THIS IS NOT LEGAL ADVICE:  
CONSULT YOUR ATTORNEY FOR DETAILS ON ANYTHING IN THIS PRESENTATION.**



# ROAD MAP



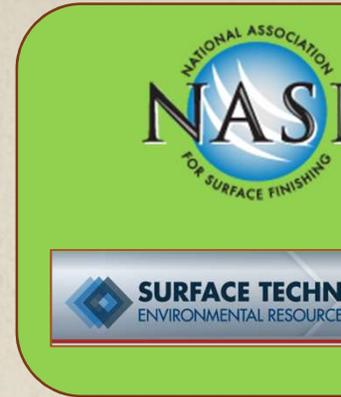
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## RESOURCES

# TRUMP ADMINISTRATION STATED POLICY GOALS

## America First Energy Plan

Energy is an essential part of American life and a staple of the world economy. The Trump Administration is committed to energy policies that lower costs for working Americans and maximize the use of American resources, freeing us from dependence on foreign oil.

For too long, we've been held back by **burdensome regulations on our industry**. President Trump is committed to eliminating harmful and unnecessary policies such as the **Climate Action Plan and the Waters of the U.S. rule**. Lifting these restrictions will greatly help American workers, increasing wages by more than \$30 billion over the next 7 years.

Our need for energy must go hand-in-hand with responsible stewardship of our environment. Protecting clean air and clean water, conserving our natural resources, and preserving our natural reserves and resources will remain a high priority. President Trump will **refocus the EPA on its essential mission of protecting our air and water**.

A bright future depends on energy policies that stimulate our economy, ensure energy security, and protect our health. Under the Trump Administration's energy plan, that future can become a reality.

<https://www.whitehouse.gov/america-first-energy>

MAKE  
ELECTROPLATING  
GREAT AGAIN

# EXECUTIVE ORDERS AFFECTING SURFACE FINISHING

. Permit Streamlining Action Plan for domestic manufacturers.

. “One In, Two Out” Rule.

. Created Regulatory Reform Officer role at several Agencies.

. Ordered review of the “Waters of the US Rule”.

. Ordered review of the “Clean Power Plan”, rescinded some “Climate” related

<https://www.whitehouse.gov/briefing-room/presidential-actions>

- REDUCING REGULATION ON DOMESTIC MANUFACTURING
- CREATED “ONE IN, TWO OUT” RULE
- CREATED REGULATORY REFORM OFFICERS
- REVIEWING CLEAN POWER PLAN
- REVIEWING WATERS OF THE US RULE

# TRUMP ADMINISTRATION SUMMARY

NO MATTER WHAT YOU HEAR  
ABOUT REDUCED LAW OR  
REGULATIONS, STAY IN  
COMPLIANCE!

<https://www.whitehouse.gov/america-first-energy>

MAKE  
ELECTROPLATING  
GREAT AGAIN

# ROAD MAP



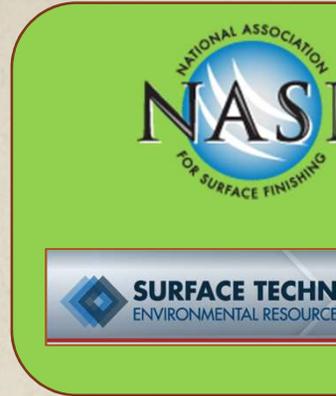
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US EPA

# FEDERAL ENVIRONMENTAL PROTECTION AGENCY

<https://www.epa.gov>

The screenshot shows the EPA website homepage. At the top, there is a navigation bar with 'Environmental Topics', 'Laws & Regulations', and 'About EPA'. A search bar is located on the right. Below the navigation bar, the main heading reads 'U.S. Environmental Protection Agency'. The central content area features a large banner for 'Fiat Chrysler' with a sub-headline 'Acting Administrator Catherine McCabe' and a small photo of her. To the right of the banner is a bio for Catherine McCabe, stating 'EPA's mission is to protect human health and the environment.' Below the banner are three columns of content: 'Popular Topics' with links like 'Acid Rain', 'Climate Change', and 'Greenhouse Gas'; 'News' with a list of recent news items including 'Southeast Regional Rain Catcher Nominations' and '\$12.7M for Small Drinking, Waste Water Systems'; and 'Your Community' with a map and a 'Go' button. At the bottom, there are sections for 'Our Planet, Our Home Blog', 'Watch Our Featured Video' (Radon PSA), and 'Multilingual Links'.

- *“The mission of EPA is to protect health and the environment.”*
- Previous Trends:
  - “COMPLIANCE ASSISTANCE” BE “COMPLIANCE ASSURANCE”.
  - “ASSISTANCE” IS THE MANTRA, SBEAPs and ASSISTANCE PROGRAM FUNDING APPEAR TO HAVE DW
  - DUE TO BETTER ENFORCEMENT COMPLIANCE, MORE STATE/LOCAL INVOLVEMENT?
- ALMOST INSTANTLY AFFECTED ADMINISTRATION.
- THE BIG TAKEAWAY: “ROLLING BACK DOES NOT MEAN “NO REGULATIONS KEEP YOUR SCRUBBERS AND WASTEWATER TREATMENT RUNNING!

*“The mission of EPA is to protect human health and the environment.”*

# EPA CHIEF

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Oklahoma Office of the  
**Attorney General**  
E. Scott Pruitt

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## About the Attorney General

### Brief biography of Attorney General Scott Pruitt

Scott Pruitt was elected the Attorney General of Oklahoma in November 2010. As attorney general, he is dedicated to fighting corruption, safeguarding Oklahoma's vulnerable citizens, championing public safety measures to reduce violent crime and and protecting the interests of the State of Oklahoma and its citizens. Pruitt established Oklahoma's first federalism unit to combat unwarranted regulation and overreach by the federal government. He is a national leader in the cause to restore the proper balance of power between the states and federal government, having served two terms as president of the Republican Attorneys General Association. Pruitt filed the first lawsuit challenging the implementation of the Affordable Care Act, and is a leading advocate against the EPA's activist agenda. Before being elected attorney general, he served eight years in the Oklahoma State Senate where he was a leading voice for fiscal responsibility, religious freedom and pro-life issues. Pruitt and his wife, Marlyn, have been married 25 years and have two children, McKenna and Cade.

[Click here](#) for a high-resolution photo of AG Pruitt.

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[https://www.ok.gov/oag/dia/About the AG/](https://www.ok.gov/oag/dia/About%20the%20AG/)

- Nominated (Now Confirmed) Oklahoma Attorney General Scott Pruitt.
- Notes from Pruitt's OK A.G. Website:
  - Pruitt "established Oklahoma's first federalism unit to combat unwarranted regulation and overreach by the federal government." ~ OK A.G. Website, Jan. 2017.
  - Pruitt is "a leading advocate against the EPA's activist agenda." ~ OK A.G. Website, Jan. 2017.

# CFPB CHIEF

BUSINESS DAY

## Consumer Watchdog's Latest Budget Request: \$0

By STACY COWLEY JAN. 18, 2018



Mick Mulvaney, acting director of the Consumer Financial Protection Bureau, said he planned to spend down the bureau's \$177 million reserve fund to pay for operations. Jacquelyn Martin/Associated Press

### RELATED COVERAGE



Democrats Add Momentum to G.O.P. Push to Loosen Banking Rules JAN. 15, 2018



Consumer Bureau's New Leader Steers a Sudden Reversal DEC. 5, 2017



Consumer Bureau Lifts Freeze on Payments to Crime Victims DEC. 4, 2017

The Consumer Financial Protection Bureau's acting director, Mick Mulvaney, intensified his efforts this week to curb an agency he has denounced as a regulator run amok. His latest tactic: starve it of cash.

The consumer bureau is funded directly by the Federal Reserve and sends the central bank a request each quarter for money for its operations. On Wednesday, Mr. Mulvaney [sent a letter](#) requesting \$0 for the current quarter, which runs through March.

The bureau has been sitting on a \$177.1 million reserve fund, Mr. Mulvaney said in his letter. He plans to use that to cover the bureau's projected quarterly expenses of \$145 million.

"I see no practical reason for such a large reserve," Mr. Mulvaney wrote. "It is my intent to spend down the reserve until it is of a much smaller size."

The move is largely symbolic — the bureau has enough of a cash cushion to continue its usual operations for the rest of the quarter. It follows other recent moves by Mr. Mulvaney to spotlight the Trump administration's desire to shift the consumer bureau's trajectory.

<https://www.nytimes.com>

## COMPARE: EPA VS. CFPB

- NEW CFPB ACTING DIRECTOR MULVANEY
- REQUESTED \$0.00 QUARTERLY BUDGET.
- WILL "SPEND DOWN" RESERVE.

# FEDERAL SHUTDOWN

## What Will Happen if the Government Remains Shut Down

By ALICIA PARLAPIANO and KAREN YOURISH UPDATED JAN. 20, 2018

If Congress fails to come to an agreement, the government shutdown that officially began at 12:01 a.m. Saturday would continue indefinitely. Hundreds of thousands of federal workers would be furloughed, affecting a wide range of government programs.

Share of Employees Who Would Stay Home

Agency	Total employees	Furloughed	Share of employees
Housing and Urban Development	7,800	7,500	96%
Environmental Protection Agency	14,400	13,700	95
Education	3,900	3,700	95
Commerce	47,900	41,600	87
Labor	15,400	12,800	83
Interior	70,400	56,600	80
Treasury	88,000	48,500	55
Health and Human Services	81,900	41,000	50
Defense (civilian workforce)	740,000	370,000	50
Transportation	55,200	20,500	37
Justice	114,600	19,500	17
Social Security Administration	63,200	10,400	16
Homeland Security	241,400	31,200	13
Veterans Affairs	377,000	15,900	4

Note: Current data for the State, Energy and Agriculture Departments were not immediately available.  
Source: Agency contingency plans

[https://www.nytimes.com/interactive/2018/01/19/us/politics/government-shutdown-effects.html?emc=edit\\_nn\\_20180121&n=...-briefing&nid=76971227&te=](https://www.nytimes.com/interactive/2018/01/19/us/politics/government-shutdown-effects.html?emc=edit_nn_20180121&n=...-briefing&nid=76971227&te=)

- DURING SHUTDOWN, PRUITT PLANNED TO AGENCY OPEN.

[https://www.washingtonpost.com/news/energy-environment/wp/2018/01/19/epa-will-stay-open-all-next-week-even-if-government-shuts-down-pruitt-says/?utm\\_term=.86147d6a910c](https://www.washingtonpost.com/news/energy-environment/wp/2018/01/19/epa-will-stay-open-all-next-week-even-if-government-shuts-down-pruitt-says/?utm_term=.86147d6a910c)

stay open all next week even if the government shuts down, Pruitt says



Environmental Protection Agency, in November. (Ricky Carost/The Washington Post)

Environmental Protection Agency's operations will continue through next week even if government shuts down, Administrator Scott Pruitt informed agency employees in a message Friday.

# DEREGULATION IN ACTION



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## EPA Takes Another Step To Advance President Trump's America First Strategy, Proposes Repeal Of "Clean Power Plan"

10/10/2017

Contact Information:  
press@epa.gov

**WASHINGTON** (October 10, 2017) – Today, U.S. Environmental Protection Agency (EPA) Administrator Scott Pruitt issued a Notice of Proposed Rulemaking (NPRM), proposing to repeal the so-called "Clean Power Plan (CPP)." After reviewing the CPP, EPA has proposed to determine that the Obama-era regulation exceeds the Agency's statutory authority. Repealing the CPP will also facilitate the development of U.S. energy resources and reduce unnecessary regulatory burdens associated with the development of those resources, in keeping with the principles established in President Trump's Executive Order on Energy Independence.

"The Obama administration pushed the bounds of their authority so far with the CPP that the Supreme Court issued a historic stay of the rule, preventing its devastating effects to be imposed on the American people while the rule is being challenged in court," **said EPA Administrator Scott Pruitt.** "We are committed to righting the wrongs of the Obama administration by cleaning the regulatory slate. Any replacement rule will be done carefully, properly, and with humility, by listening to all those affected by the rule.

### CPP Appears to be Inconsistent with the Clean Air Act

The CPP, issued by the Obama administration, was premised on a novel and expansive view of Agency authority that the Trump administration now proposes to determine is inconsistent with the Clean Air Act. In fact, the CPP was put on hold in February 2016, when the U.S. Supreme Court issued an unprecedented, historic stay of the rule.

"EPA will respect the limits of statutory authority. The CPP ignored states' concerns and eroded longstanding and important partnerships that are a necessary part of achieving positive environmental outcomes. We can now assess whether further regulatory action is warranted; and, if so, what is the most appropriate path forward, consistent with the Clean Air Act and principles of cooperative federalism," **said Administrator Pruitt.**

The CPP was issued pursuant to a novel and expansive view of authority under Section 111 of the Clean Air Act (CAA). The CPP required regulated entities to take actions "outside the fence line." Traditionally, EPA Section 111 rules were based on measures that could be applied to, for, and at a particular facility, also referred to as "inside the fence line" measures. Prior to the CPP being issued, every single Section 111 rule on the books, including a handful of existing source rules and around 100 new-source rules, obeyed this limit. As the CPP departed from this traditional limit on EPA's authority under an "inside the fence line" interpretation, EPA is proposing to repeal it.

EPA has now sent the NPRM to the Federal Register for publication. Upon publication, the public will have 60 days to submit comments.

<https://www.epa.gov/newsreleases/epa-takes-another-step-to-advance-president-trumps-america-first-strategy-proposes-repeal-of-clean-power-plan>

- EPA TAKES FIRST FORMAL STEP IN REPEALING CLEAN POWER PLAN
- INTERVIEW WITH NEW YORK TIMES FEB 2, 2018.
  - THE GOAL IS "EPA ORIGINALISM"
  - A FEDERALIST ARGUMENT THAT EPA HAS OVER-REACHED ITS LEGAL AUTHORITY
  - PRUITT: WILL REPEAL AND REPLACE
  - FROM "THE DAILY", NY TIMES FEB 2<sup>ND</sup> 2018 PODCAST

# ROAD MAP



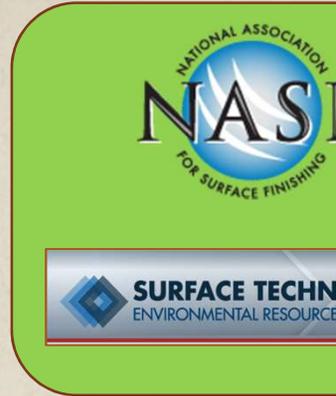
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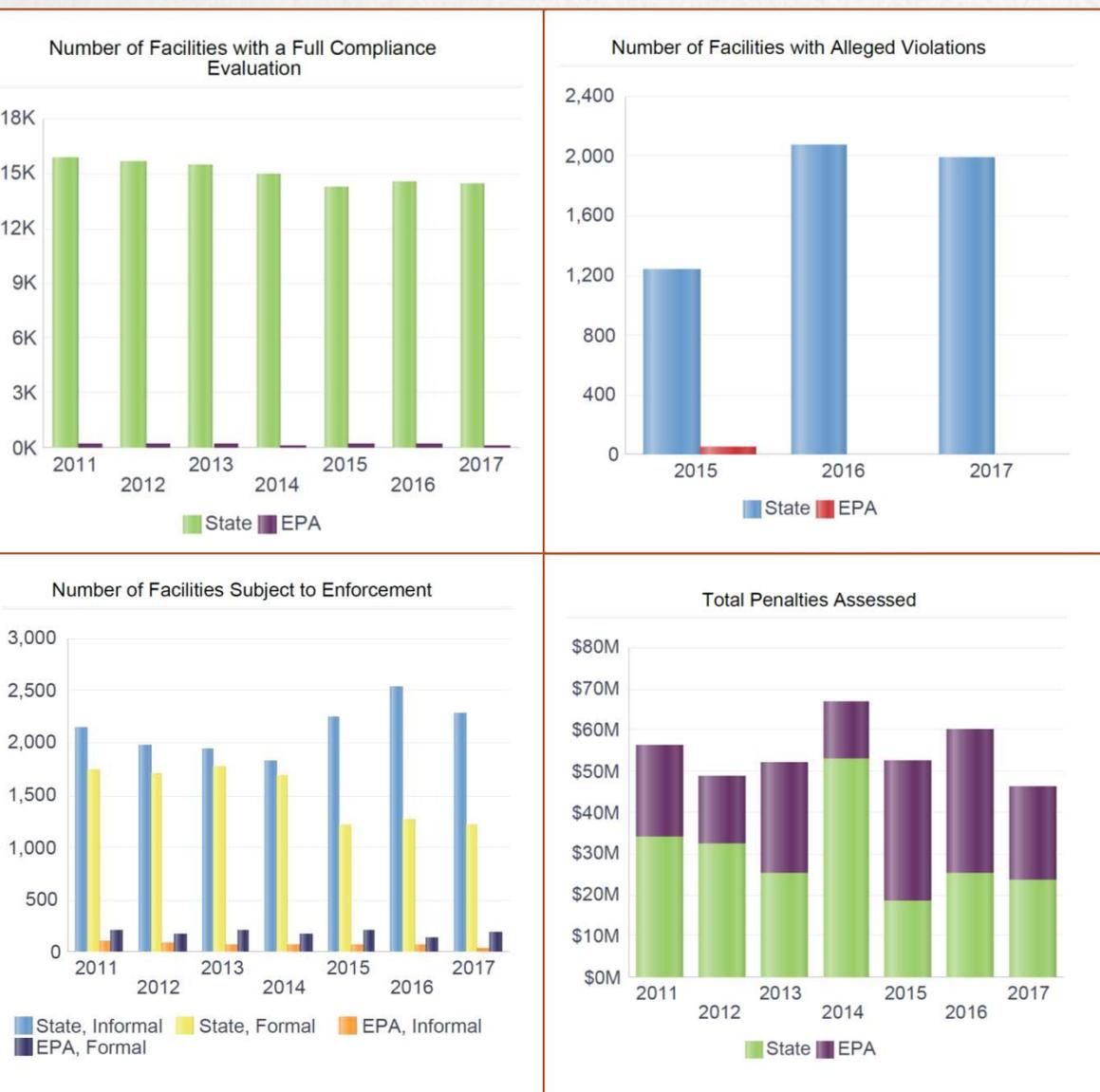


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US EPA: DATA

# ENFORCEMENT OF CLEAN AIR ACT: -NATIONAL - 2017

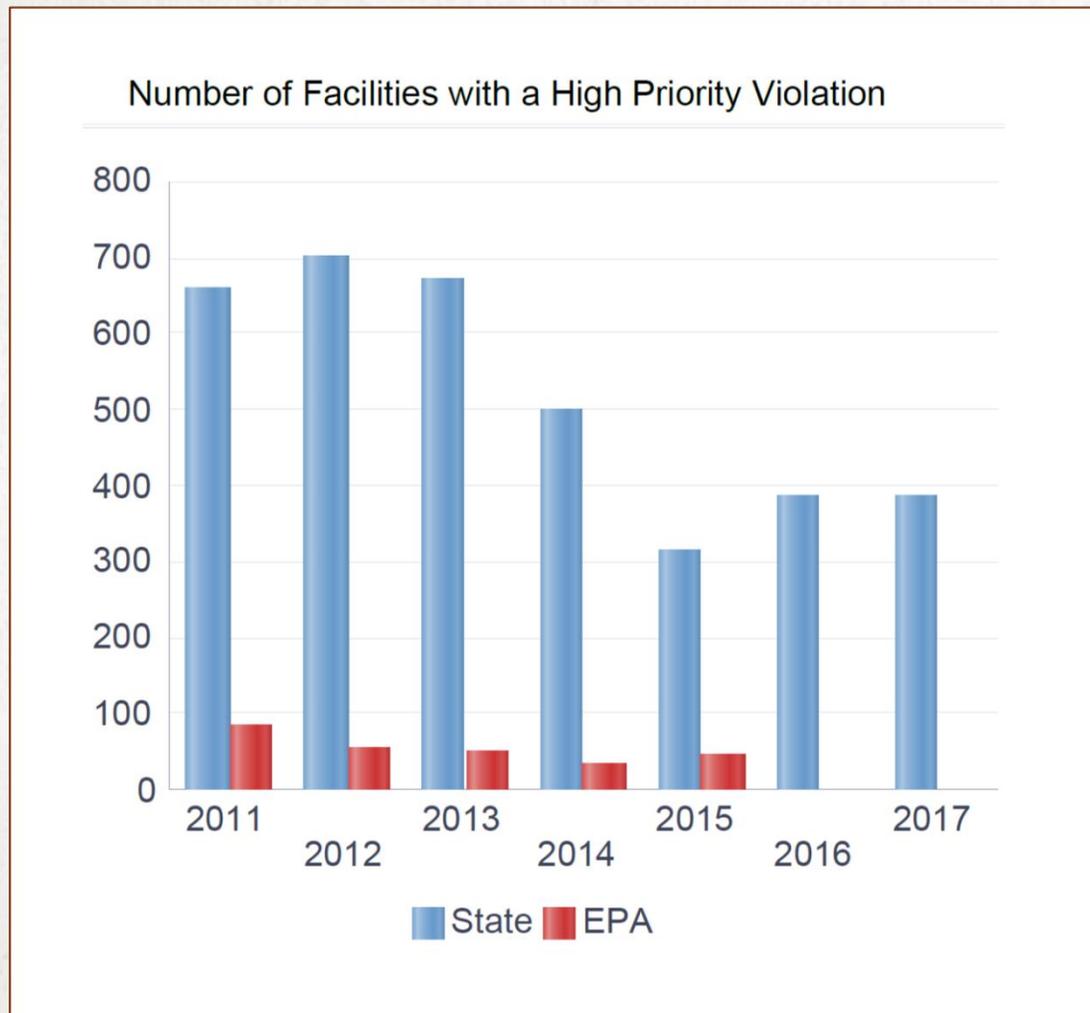
<https://echo.epa.gov/t>



- EPA “ECHO” DATA WEBSITES
  - FULL COMPLIANCE EVALUATIONS.
    - 2016 - 14,519
    - 2017 - 14,565
  - ALLEGED VIOLATIONS
    - 2011 – 2014 TREND DOWN
    - 2016 – 2017 ABOUT EQUAL
  - FACILITIES SUBJECT TO ENFORCEMENT
    - 2011 – 2017 UP OVER 100%
    - 2016-2017 DROPPED.
  - TOTAL PENALTIES LAST YEAR THE LOWEST SINCE AT LEAST 2011.

# ENFORCEMENT OF CLEAN AIR ACT: -NATIONAL - 2017

<https://echo.epa.gov/t>



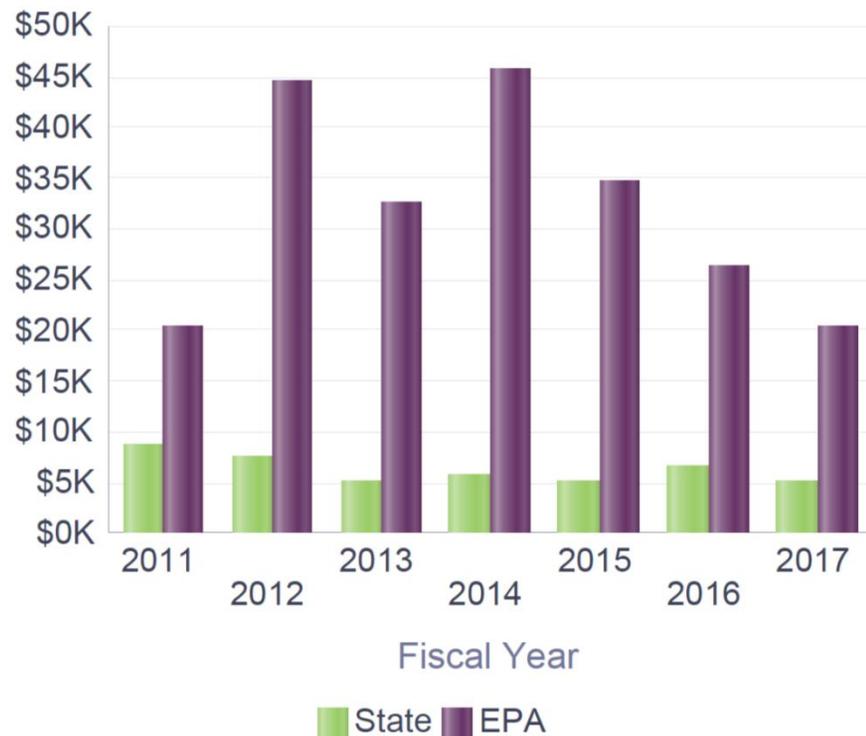
- EPA “ECHO” DATA WEBSITE
- HIGH PRIORITY VIOLATIONS
- 2013: 723 TOT. (1.98/D)
- 2014: 535 TOT. (1.47/D)
- 2015: 362 TOT. (0.99/D)
- 2016: 388 TOT. (1.06/D)
- 2017 394 TOT. (1.08/D)

\*2016 & 2017: NO STATE HPV'S, OR NO STATE DATA

# ENFORCEMENT OF CLEAN AIR ACT: -NATIONAL - 2017

<https://echo.epa.gov/t>

**Median Monetary Penalty**

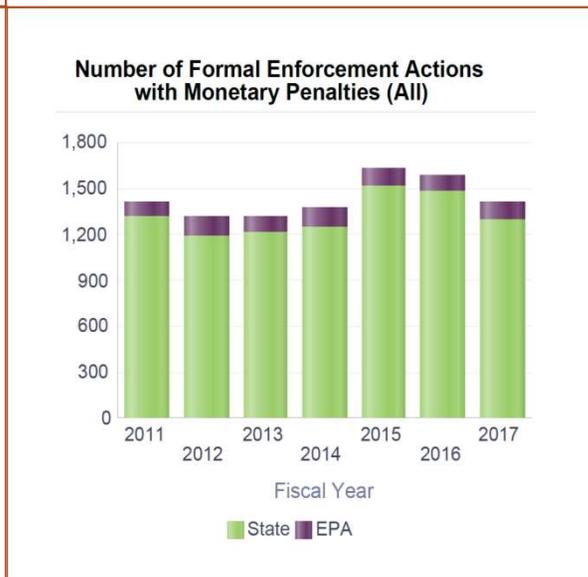
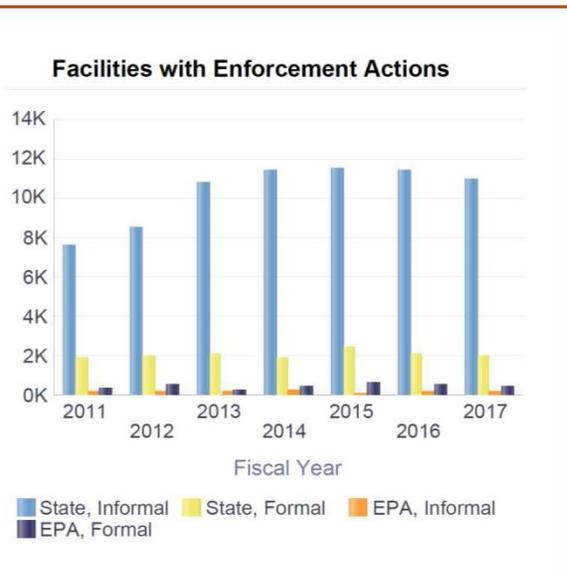
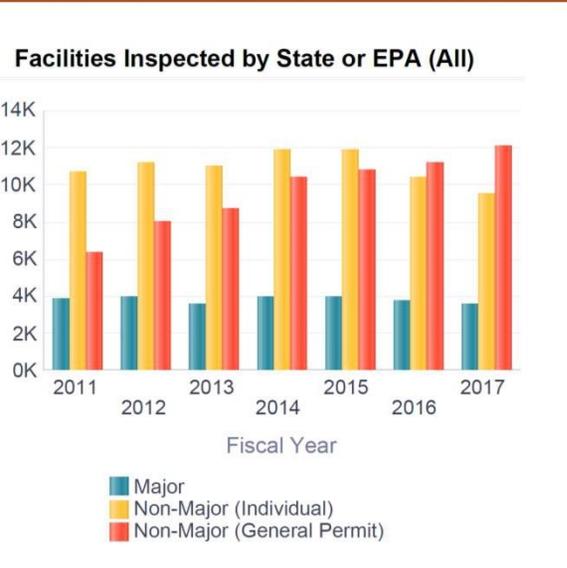


- EPA “ECHO” DATA WEBSITE
- MEDIAN MONETARY PENALTY – CLEAN AIR ACT
- STEADY DECLINE 2014-2017

# FORCEMENT OF CLEAN WATER ACT: -NATIONAL - 2017

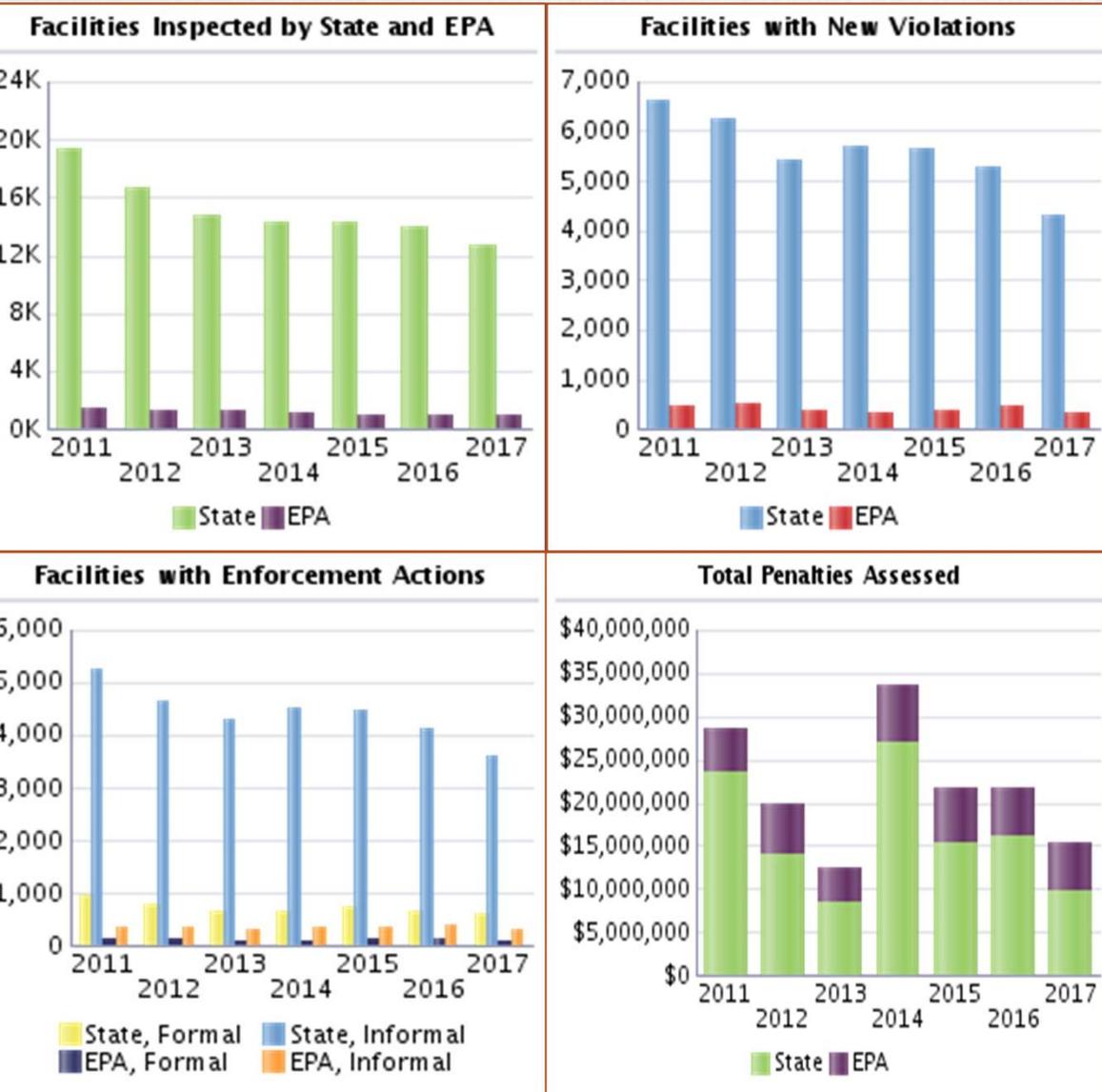
<https://echo.epa.gov/t>

- CWA NATIONAL



# ENFORCEMENT OF RCRA/HAZ WASTE: -NATIONAL - 2017

<https://echo.epa.gov/t>



- HAZARDOUS WASTE ENFORCEMENT
  - APPEAR TO BE DECLINING
  - HOWEVER, SOME CHANGES TO RCRA IN 2017
  - SEE BETH KNAUSS PRESENTATION FOR FLORIDA DETAILS

# ROAD MAP



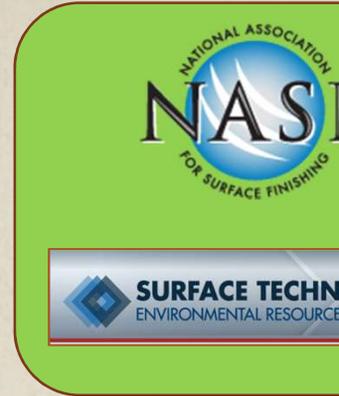
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## US EPA: DATA - TRENDS?

# RCRA UPDATE FOR HAZARDOUS WASTE GENERATORS

## Conservation and Recovery Act Overview

The Resource Conservation and Recovery Act (RCRA) protects communities and resources. EPA develops regulations, guidance and policies that ensure proper management of solid and hazardous waste, and programs that promote beneficial reuse.

### What is a solid waste?

- Garbage, also known as [municipal solid waste](#) (e.g., milk cartons and coffee grounds)
- Refuse (e.g., metal scrap, wall board, and empty containers)
- Sludges from waste treatment plants, water supply treatment plants, or pollution control facilities (e.g., scrubber slags)
- Industrial wastes (e.g., manufacturing process wastewaters and nonwastewater sludges and solids)
- Other discarded materials, including solid, semisolid, liquid, or contained gaseous materials resulting from industrial, commercial, mining, agricultural, and community activities (e.g., boiler slag).

EPA may also refer to the law, regulations and EPA policy that governs the waste management program mandated by Congress as the RCRA program. EPA regulations carry out the congressional intent by providing explicit, legally enforceable standards for hazardous waste management. These regulations can be found in title 40 of the Code of Federal Regulations (CFR), parts 261-266. EPA documents and policy directives clarify issues related to the implementation of the regulations.

The RCRA program include the [Act, Regulations, Policy and Guidance](#).

[Top of Page](#)

## RCRA Programs by the Numbers

- Managing 2.5 billion tons of solid, industrial and hazardous waste
- Overseeing 6,600 facilities with over 20,000 process units in the full permitting universe
- Working to address more than 3,700 existing contaminated facilities needing cleanup, and reviewing as many as 2,000 possible facilities
- Providing \$97.3 million in grant funding to help states implement authorized hazardous waste programs
- Providing incentives and opportunities to reduce or avoid greenhouse gas emissions through material and land management practices

<https://www.epa.gov/rcra/resources/conservation-and-recovery-act-rcra-0>

- RCRA GOVERNS SOLID WASTE “CRADLE-TO-CRAVE”
- MOST RECENT CHANGES
  - UPDATED DEFINITION OF SOLID WASTE
  - SOME STANDARDS MORE STRINGENT
  - COLLECTED MANY RUNOFFS AND PUT THEM IN ONE LOCATION
  - ACCORDING TO BETH KNAUSS, FLORIDA AD...

# RCRA UPDATE – WHERE TO LEARN MORE

<https://www.epa.gov/rcra/resource-conservation-recovery-act-rcra-regulations#haz>

The screenshot shows the EPA website's page for RCRA Laws and Regulations. The page features the EPA logo, navigation tabs for Environmental Topics, Laws & Regulations, and About EPA, and a search bar. The main heading is "Resource Conservation and Recovery Act (RCRA) Laws and Regulations". Below this, there is a paragraph explaining that RCRA is the public law that creates the framework for the proper management of hazardous and non-hazardous solid waste. The page is organized into four main sections: RCRA Overview, RCRA Regulations, RCRA Tools and Resources, and Resources for State Officials. Each section includes a representative image and a list of links. Additionally, there are two callout boxes: "RCRA's 40th Anniversary" with links to an interactive timeline and the anniversary page, and "New Highlights" with links to proposed and final rules, and identification of non-hazardous secondary materials.

**EPA** United States Environmental Protection Agency

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## Resource Conservation and Recovery Act (RCRA) Laws and Regulations

The Resource Conservation and Recovery Act (RCRA) is the public law that creates the framework for the proper management of hazardous and non-hazardous solid waste. The law describes the waste management program mandated by Congress that gave EPA authority to develop the RCRA program. The term RCRA is often used interchangeably to refer to the law, regulations and EPA policy and guidance.

### RCRA Overview



- [What is RCRA?](#)
- [How Does RCRA Work?](#)
- [History of RCRA](#)

### RCRA Regulations



- [Non-hazardous Waste](#)
- [Hazardous Waste](#)
- [Underground Storage Tanks](#)

### RCRA Tools and Resources



- [RCRA Online](#)
- [RCRA In Focus](#)
- [RCRA Orientation Manual](#)
- [Sustainable Materials Management](#)

### Resources for State Officials



- [State Authorization Under RCRA](#)
- [Policies and Guidance Documents for RCRA State Authorization](#)
- [Documents, Data and Manuals for State Authorization](#)
- [Rule Checklists, Summaries and Federal Register Notices for State Authorization](#)

[Contact Us](#) to ask a question, provide feedback, or report a problem.

- RCRA EPA WEBSITE
- OVERVIEW OF THE LAWS, RULES, AND OPINIONS THAT MAKE UP RCRA.
- LINKS TO THE ACTUAL LANGUAGE.
- RCRA OUTLINE
- RULE CHECKLISTS AND SUMMARIES.

[↑ Top of page](#)

ion, provide feedback, or report a problem.

# METAL PRODUCTS & MACHINERY (MP&M) EFFLUENT GUIDELINE REVIEW

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## Fact Sheet: Preliminary 2016 Effluent Guidelines Program Plan

### Summary

EPA published its *Preliminary 2016 Effluent Guidelines Program Plan*. The *Plan* describes EPA's Clean Water Act rulemakings and other actions designed to control industrial wastewater pollution. EPA solicits public review and comment on the *Preliminary Plan* to help inform the content of the Final Plan. Comments will be accepted for 30 days from the date of publication in the *Federal Register*.

This *Preliminary Plan* also provides updates on three ongoing industry studies announced in prior Plans:

- Petroleum Refining,
- Centralized Waste Treatment Facilities, and
- Metal Finishing.

This *Plan* describes that EPA is reviewing the following categories given changes in these industries since the original guidelines were developed in the 1980s:

### Background

Effluent limitations guidelines and standards are national, technology-based requirements for controlling industrial wastewater discharges to surface waters and into publicly owned treatment works (also called municipal sewage treatment plants).

Clean Water Act section 304(m) requires EPA to biennially publish a plan for new and revised effluent limitations guidelines, after public review and comment. EPA typically publishes a preliminary plan upon which the public is invited to comment, and then publishes a final plan.

### Decisions and actions in the 2016 Preliminary Plan

This *Preliminary Plan* does not announce any new or revised regulations for industrial wastewater discharges, beyond those that are already underway (which have been announced in prior Plans).

Those underway include:

- Pretreatment standards for the Dental Category,
- Pretreatment standards for Unconventional Oil and Gas Extraction, and
- Effluent limitations for the Canned and Preserved Seafood Category covering Alaska Seafood Processing.

- Battery Manufacturing, and
- Electrical and Electronic Components Manufacturing.

In addition, the *Plan* explains that EPA is further investigating certain pollutants being discharged by the following categories which may not be adequately regulated by current effluent guidelines:

- Iron and Steel Manufacturing;
- Organic Chemicals, Plastics, and Synthetic Fibers (OCPSF); and
- Pulp, Paper, and Paperboard Categories.

Finally, the *Plan* solicits data and information from the public on several industrial wastewater discharge questions and issues that are fully described in the *Federal Register* notice.

### Where can I find more information?

You can access the *Federal Register* notice, the *Preliminary 2016 Plan* and all supporting documents on EPA's Effluent Guidelines Plan website at: <https://www.epa.gov/eg/effluent-guidelines-plan>.

For other related information, contact Mr. William F. Swietlik by phone at (202) 566-1129, by e-mail at: [swietlik.william@epa.gov](mailto:swietlik.william@epa.gov), or by mail at:

U.S. EPA, Office of Water, Engineering and Analysis Division (4303T), 1200 Pennsylvania Avenue, NW, Washington, D.C., 20460.

<https://www.epa.gov/eg/effluent-guidelines-plan-2016>

- ELG UPDATE ON METAL FINISHING
- LOOKING FOR NEW, POTENTIAL DANGEROUS, UNREGULATED MATERIALS USED IN METAL POLISHING AND FINISHING.
- LOOKING AT CURRENT CHEMICALS AND PRACTICES FOR WHETHER STANDARDS SHOULD BE CHANGED
- PREVIOUS REVIEW; INDUSTRY UNABLE TO REBUFF, SHOWING COMPLIANCE, TECHNOLOGY COSTS OF INCREASED STANDARDS
- NASF MAY USE P2 SURVEY RESULTS AND MILWAUKEE STUDY AS EVIDENCE OF NO NEED TO CHANGE
- ORIGIN IN CLEAN WATER ACT INCLUDES AIR (WET AIR POLLUTION CONTROL) AND WATER.

# ROAD MAP



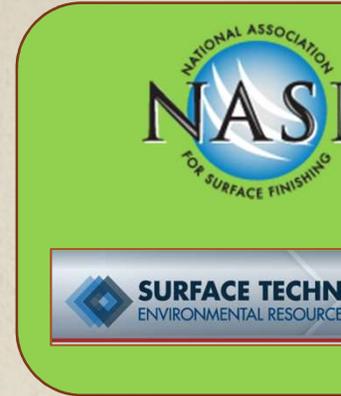
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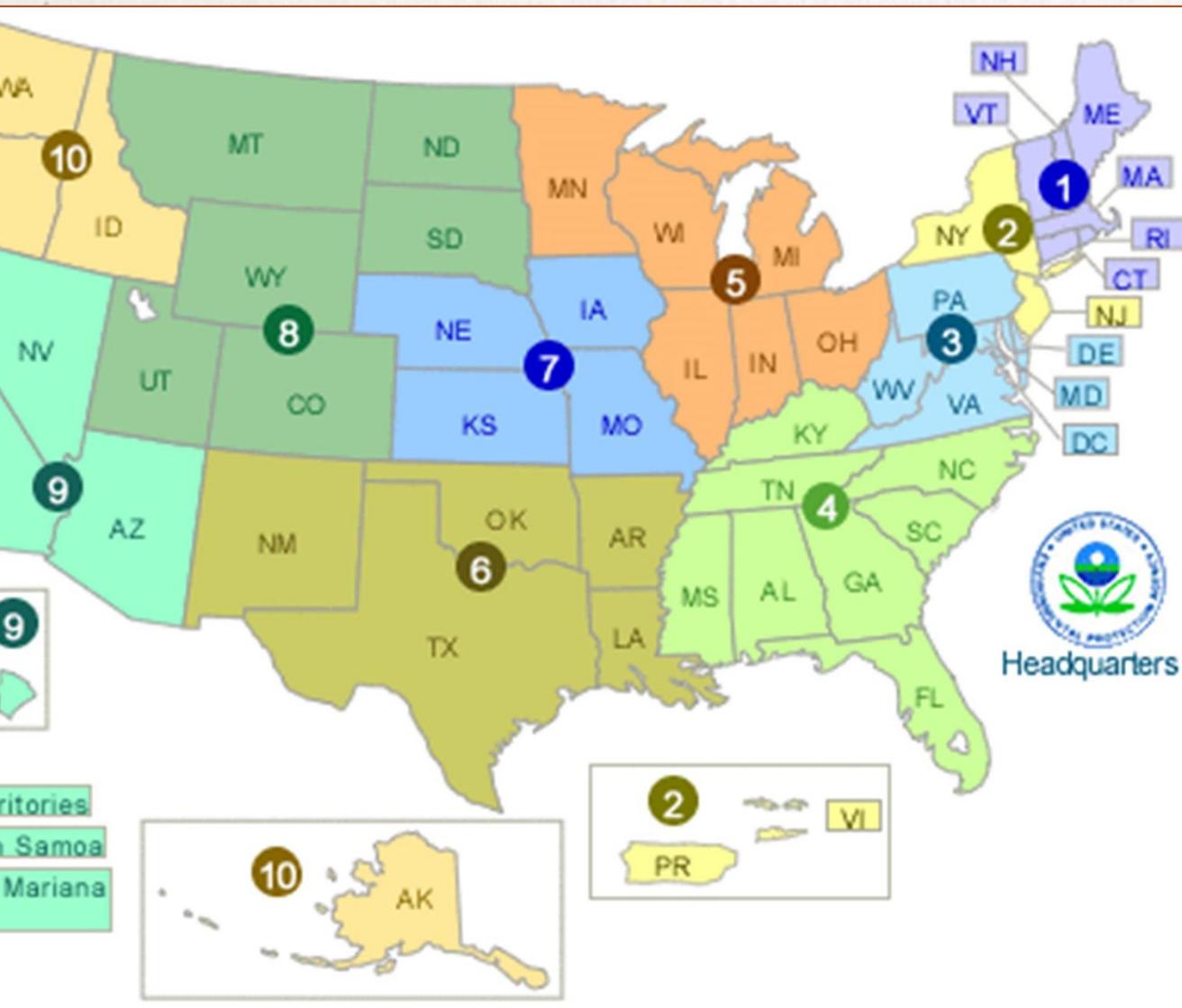
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## EPA REGIONS

# ENVIRONMENTAL PROTECTION AGENCY



<https://www.epa.gov/epa/visiting-regional-offices>

- TEN EPA REGIONS
- FLORIDA IN REGION 4
  - (ATLANTA)
- OHIO IN REGION 5
  - (CHICAGO)
- CALIFORNIA IN REGION 9
  - (SAN FRANCISCO)
  - SIGNIFICANT AIR CHANGES FOR CHROMIUM: WILL IT MOVE EAST?
- REGIONS WORK IN CONJUNCTION WITH STATE ENVIRONMENTAL OFFICES
  - FL, KY, TN, AL, MS, SC, NC, GA
  - OHIO EPA

# ENVIRONMENTAL PROTECTION AGENCY – REGION 5



Environmental Topics    Laws & Regulations    About EPA

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## About EPA

- Home
- Administrator
- History
- Organization Chart
- Operating EPA Facilities
- Contacting Addresses and Phone Numbers
- Regional Directory
- Regional Headquarters
- Contacting a Regional Office
- What We Do

## EPA Region 5



Serving [Illinois](#), [Indiana](#), [Michigan](#), [Minnesota](#), [Ohio](#), [Wisconsin](#) and [35 Tribes](#)

## Key Issues

- [USS Lead Superfund Site](#)
- [Grand Rapids \(MI\) Vapor Intrusion](#)
- [Flint \(MI\) Drinking Water Response](#)
- [Great Lakes Restoration Initiative](#)
- [Search for Superfund sites in Region 5](#)
- [Cleanup sites in Region 5](#)
- [Chicago Lead in Drinking Water Study](#)

## Related Information

- [Contact EPA Region 5](#)
- Region 5 Main Number:**  
312-353-2000 or in the Region 5 states, 800-621-8431,  
8:00 am to 4:30 pm  
Central time

<https://www.epa.gov/region-5>

- BASED IN CHICAGO
- ACTIVE REGION, OFTEN LEADS NATIONAL EFFORTS
- CURRENT PROJECTS:
  - 6W SURVEY
  - P2 BENCHMARKING SURVEY
  - P2 BLUEBOOK UPDATE

# ENVIRONMENTAL PROTECTION AGENCY – REGION 4



## EPA Region 4

Serving Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee

### Accomplishments:

Civil Cases		
	Estimated pollution reduced, treated or eliminated (pounds) <sup>1</sup>	107,509,100
	Estimated hazardous waste treated, minimized, or properly disposed of (pounds) <sup>1</sup>	55,660,900
	Estimated contaminated soil/debris to be cleaned up (cubic yards)	496,900
	Estimated contaminated water/aquifer to be cleaned up (cubic yards)	25,057,400
Enforcement Activities		
	Case initiations	354
	Case conclusions	359

[↑ Top of page](#)

<https://www.epa.gov/aboutepa/epa-region-4-southeast>

- BASED IN ATLANTA.
- AS OF EARLY 2017, DID NOT APPEAR TO BE INVOLVED IN 6W OR P2 BENCHMARKING UPDATE.
- UNCLEAR ON PARTICIPATION IN EFFLUENT GUIDELINE UPDATE.

# ROAD MAP



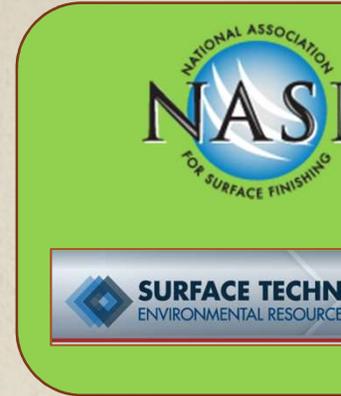
PRESIDENT



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## FLORIDA DEP

# ROAD MAP



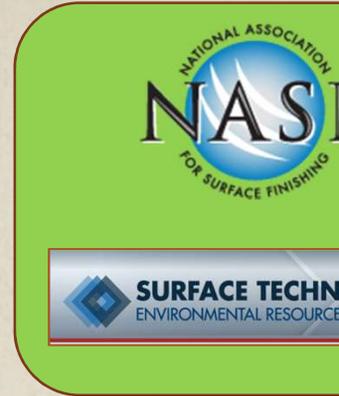
PRESIDENT



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FLORIDA DEP – CLEAN AIR ACT (CAA)

# ENFORCEMENT OF CLEAN AIR ACT: - FLORIDA -

<https://echo.epa.gov/t>

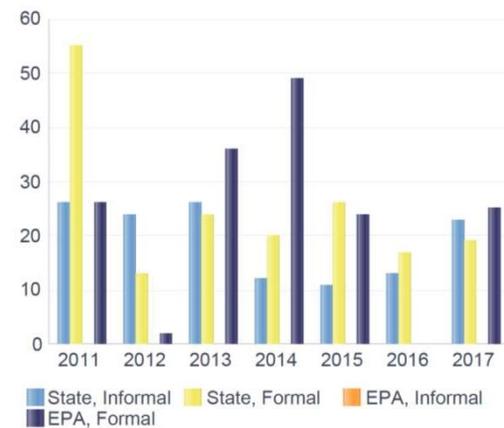
Number of Facilities with a Full Compliance Evaluation



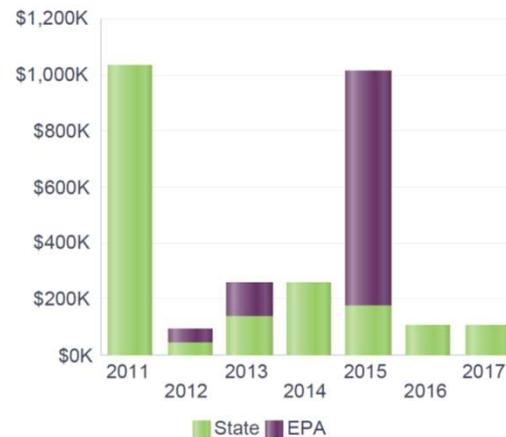
Number of Facilities with Alleged Violations



Number of Facilities Subject to Enforcement



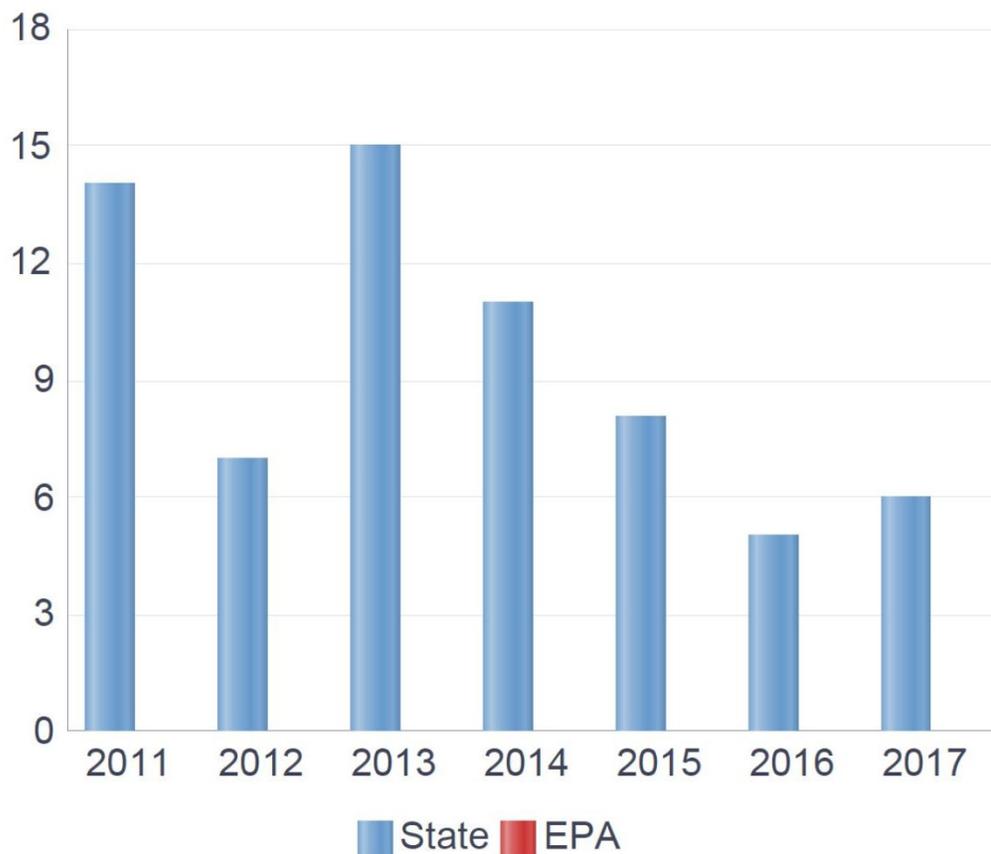
Total Penalties Assessed



- FLORIDA CLEAN AIR ACT
- INSPECTIONS
  - 2016 – 2017 DECREASE
  - 2011 – 2017 GENERAL T
  - DOWN.
- ALLEGED VIOLATIONS U
- FACILITIES SUBJECT TO ENFORCEMENT (“ALLEG VIOLATIONS”) TICKED U 2017.
- TOTAL PENALTIES STEA

# ENFORCEMENT OF CLEAN AIR ACT: - FLORIDA -

Number of Facilities with a High Priority Violation



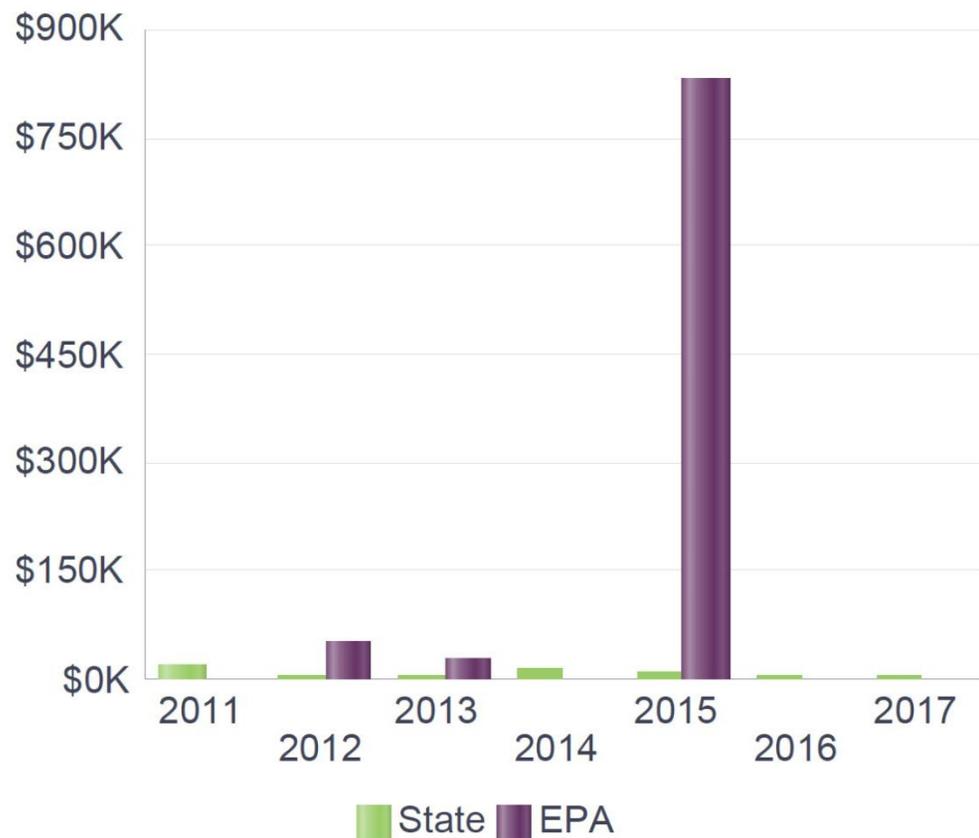
<https://echo.epa.gov/t>

- FLORIDA CLEAN AIR ACT
- HIGH PRIORITY VIOLATIONS
- DOWNWARD TREND ENDING 2017.
- SIMILAR TO NATIONAL TREND

# ENFORCEMENT OF CLEAN AIR ACT: - FLORIDA -

<https://echo.epa.gov/t>

Average Penalty Assessed

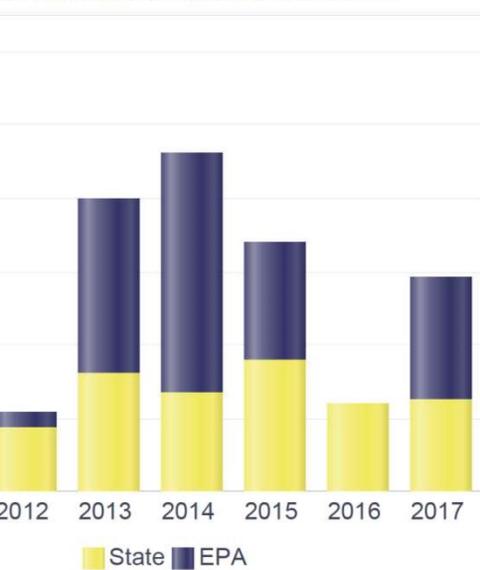


- FLORIDA CLEAN AIR ACT
- AVERAGE \$\$ AIR PENALTY ASSESSED IN FLORIDA:
- 2015: \$9,429 (FLA)
- 2016: \$6,773 (FLA)
- 2017: 5,580 (FLA)
- EPA - FLA 2015: \$831,000

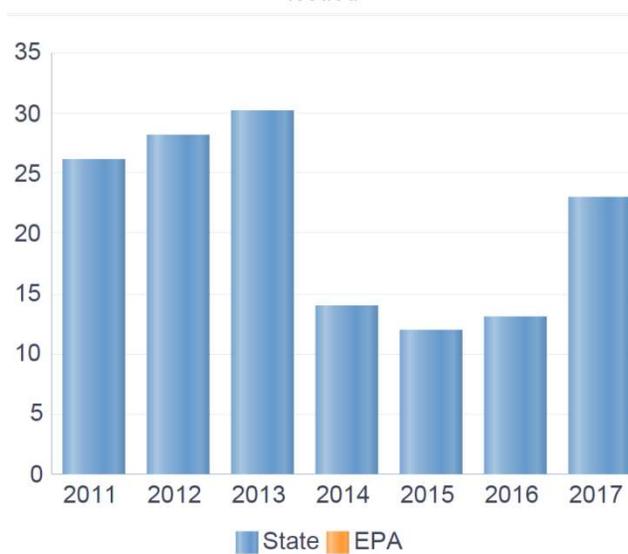
# ENFORCEMENT OF CLEAN AIR ACT: - FLORIDA-

<https://echo.epa.gov/t>

Number of Formal Enforcement Actions Issued



Number of Notifications of an Alleged Violation Issued



- FLORIDA CLEAN AIR ACT
- FORMAL VS INFORMAL ENFORCEMENT ACTIONS 2011 - 2017.
- INFORMAL TRENDRING DOWN
- FORMAL TRENDRING DOWN
- EVIDENCE OF “COMPLIANCE ASSISTANCE” IN ACTION

# ROAD MAP



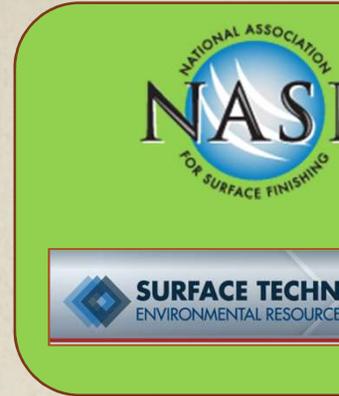
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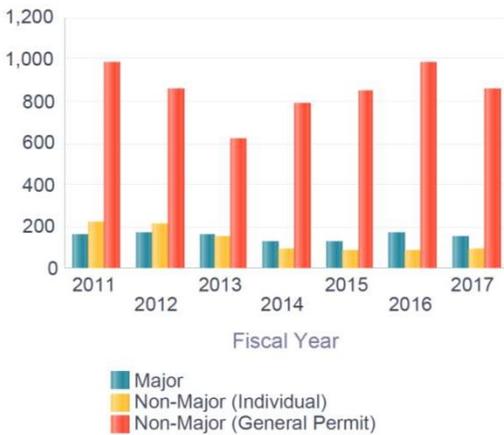
NASF & ST

FLORIDA DEP – CLEAN WATER ACT (CW)

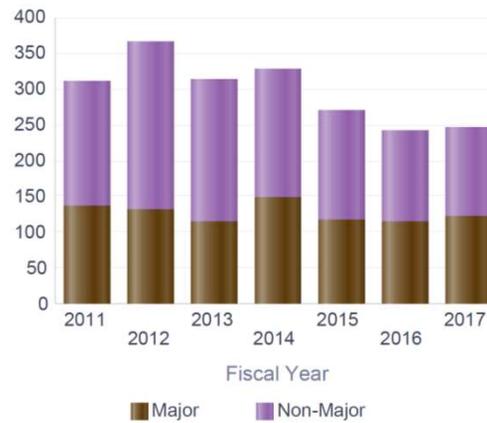
# ENFORCEMENT OF CLEAN WATER ACT: - FLORIDA -

<https://echo.epa.gov/t>

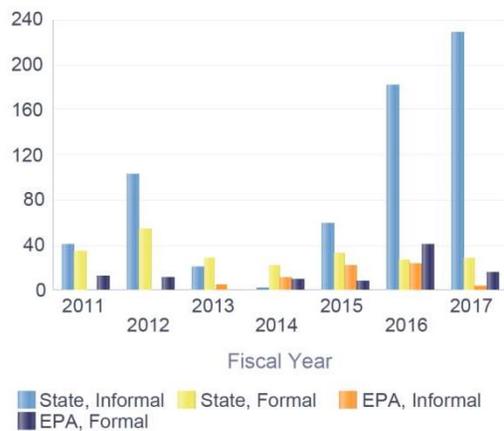
**Facilities Inspected by State or EPA (All)**



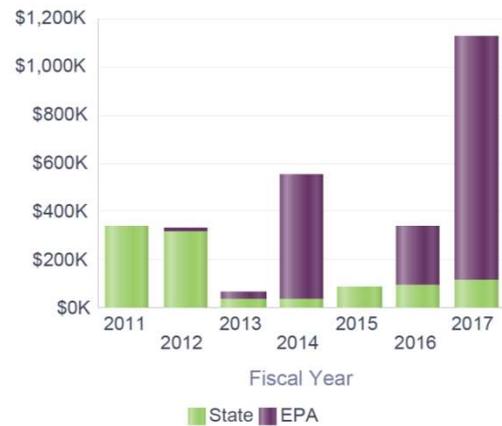
**Facilities in Non-Compliance (All)**



**Facilities with Enforcement Actions**



**Total Monetary Penalties Assessed (All)**



- FLORIDA CLEAN WATER ACT ENFORCEMENT
- INSPECTIONS DOWN '16
- NON-MAJOR FACILITIES IN NON-COMPLIANCE (TOP RIGHT – PURPLE) SLOWLY DECLINING OVER ALL.
- STATE INFORMAL ACTIONS (BOTTOM LEFT - BLUE) INCREASING; SIGN OF COMPLIANCE ASSISTANCE
- TOTAL PENALTIES – 2017 A “BAD YEAR”.

# ROAD MAP



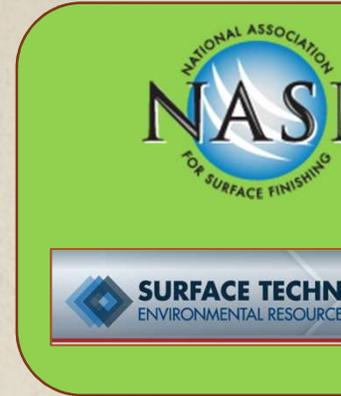
PRESIDENT



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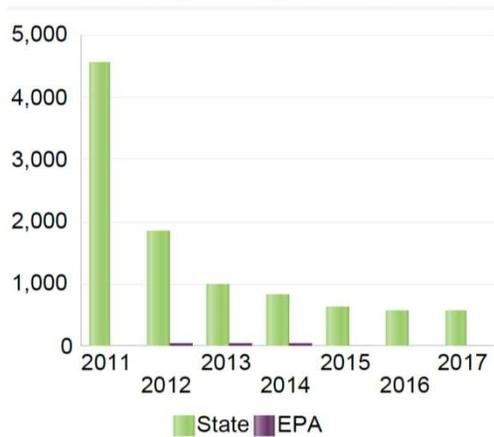
NASF & ST

## FLORIDA DEP - RCRA

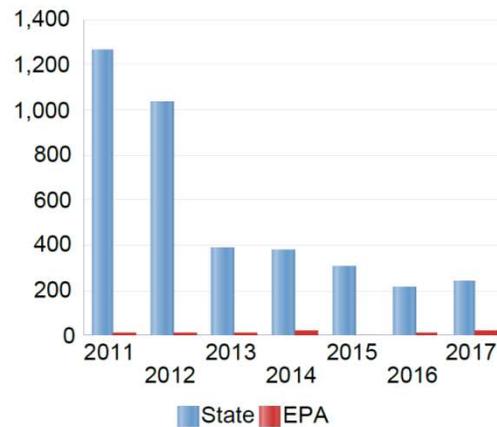
# ENFORCEMENT OF RCRA: - FLORIDA -

<https://echo.epa.gov/t>

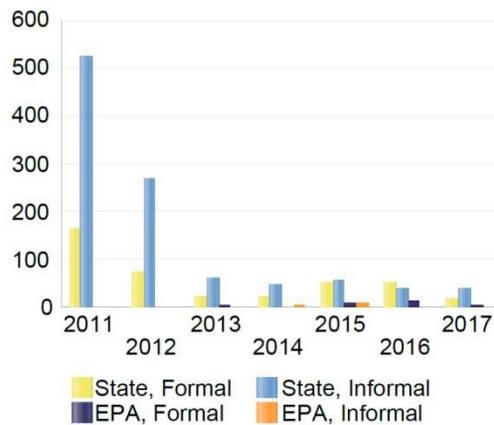
**Facilities Inspected by State and EPA**



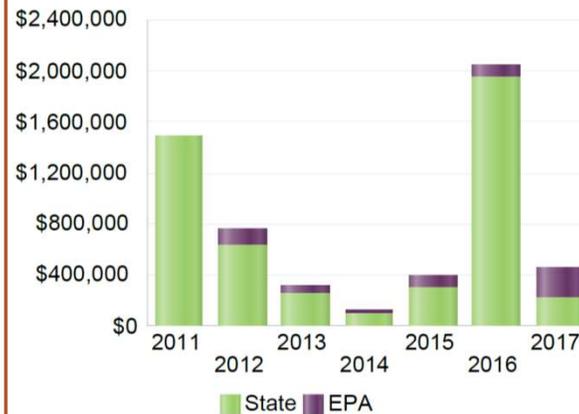
**Facilities with New Violations**



**Facilities with Enforcement Actions**



**Total Penalties Assessed**

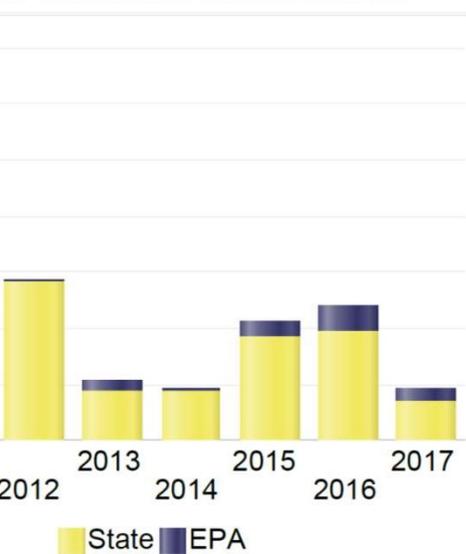


- FLORIDA RCRA DATA
- OVERALL INSPECTION TRENDED DOWN.
- NEW VIOLATIONS TRENDED DOWN, TICK UP '16 - '17
- ENFORCEMENT ACTIONS TRENDED DOWN.
- TOTAL PENALTIES - 2011 AND 2016 WERE HIGH.

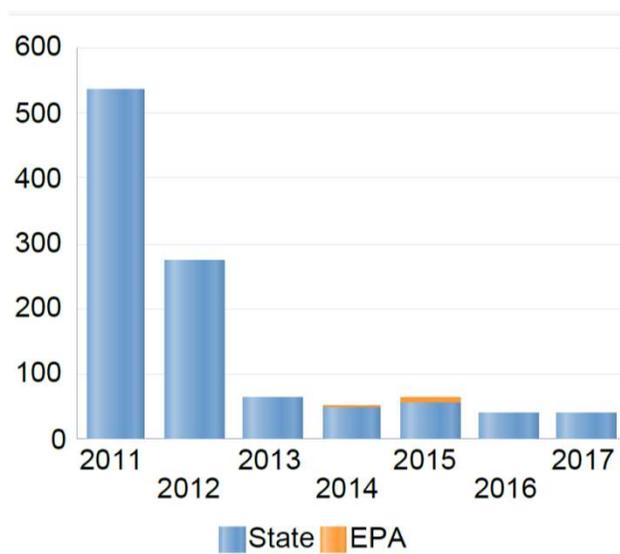
# ENFORCEMENT OF RCRA: - FLORIDA -

<https://echo.epa.gov/t>

Number of Formal Enforcement Actions



Number of Informal Enforcement Actions



- FLORIDA RCRA DATA
- FORMAL VS INFORMAL ENFORCEMENT ACTIONS 2011 - 2017.
- INFORMAL TRENDING
- FORMAL TRENDING
- EVIDENCE OF COMPLIANCE ASSISTANCE IN ACTION

# ROAD MAP



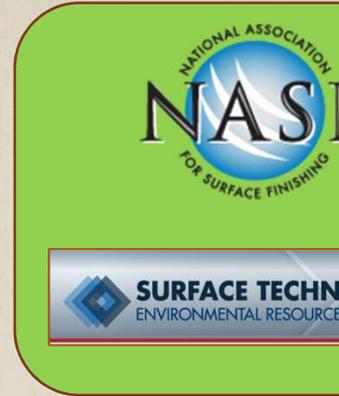
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## NON-GOVERNMENTAL CONSEQUENCES OF VIOLATIONS:

BY CONSUMER SENTIMENT, CUSTOMERS MAY BE LOOKING FOR ENVIRONMENTAL RECORDS, WHICH ARE EASIER THAN EVER TO SEARCH AND FIND

# ROAD MAP



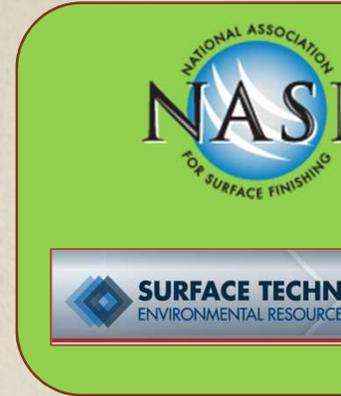
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## FLORIDA INFORMATIONAL RESOURCES

# FLORIDA RESOURCES – DIVISION OF AIR MANAGEMENT WEB PAGE UPDATED

<https://floridadep.gov/air>

**Division of Air Resource Management**

**Contact Air Resource Management**  
2005 State Stone Road  
MS 5500  
Tallahassee, FL 32309-2400  
850-717-9000

**Air Resource Management Quick Links**  
Air Quality 101  
Wildfire Smoke and Air Quality  
Florida's Air Quality System  
Air Quality Today  
Single Site Data  
Compliance  
Asbestos  
Annual Operating Report  
Small Business Environmental Assistance Program  
Permitting  
Air Permit Documents Search  
Electronic Permit Submittal and Processing System  
General Permits  
Air Modeling and Data Analysis  
Division Forms (Application, Report, Notification)  
How to Find Air Documents Online  
Interactive Maps  
Regulatory Projects  
Siting Coordination Office  
User Account Registration (SACR, EPAP)  
Volkswagen Settlement - Florida Mitigation Fund  
All Air Resource Management Content

The Division of Air Resource Management is charged with the protection and management of Florida's air resource, including air quality monitoring, permitting and ensuring compliance of emission sources, and implementing the Siting Acts.

Through a variety of services for its customers—the public and industry—the division manages Florida's air resource fairly, consistently and efficiently, while implementing state and federal requirements and enabling the economic development of the state. The division provides these services through its Office of Business Planning, Office of Air Monitoring and Office of Permitting and Compliance. The division's Siting Coordination Office implements Florida's Siting Acts, which establish procedures for licensing the construction and operation of power plants, transmission lines and natural gas pipelines.

- [Division of Air Resource Contacts](#)
- [Division Business Plan](#)

**Who can I contact in my area about air pollution complaints and concerns?**

For complaints regarding permitted facilities, odor, dust, smoke and asbestos, please contact a DEP district office or local air program in your area.

- [District Air Contacts](#)
- [Local Program Air Contacts](#)

**Air Resource Management Programs** [View All Air Resource Management Programs](#)

**Office of Air Monitoring**  
The Office of Air Monitoring oversees air monitoring operations across the state of Florida and assesses the air quality for almost 92% of Florida's more than 19 million citizens.

**Office of Business Planning**  
The Office of Business Planning oversees all business management functions necessary to operate the division plus various activities required by the Federal Clean Air Act.

**Office of Permitting and Compliance**  
The Office of Permitting and Compliance coordinates statewide regulatory activities among the state's district air programs, local air programs and the U.S. Environmental Protection Agency.

Interested in subscribing to DEP newsletters or receiving DEP updates through email? [Sign Up](#)

[About DEP](#) [Links](#) [Contact](#)

- NEW LOOK
- SAME INFORMATION
- BETTER ORGANIZED AND EASIER TO FIND.

# FLORIDA RESOURCES - CURRENT AIR RULES PAGE

Florida Department of Environmental Protection

A-Z Index Forms News Events Contact Us

About DEP How Do I Divisions Air Lands Parks & Rec Waste Water

SEARCH...

## Current Air Rules

Home » Divisions » Division of Air Resource Management » Office of Business Planning » Current Air Rules

**Office of Business Planning Quick Links**

Air Modeling and Data Analysis

Air Regulation Timelines (CFR and FAC)

Air Regulatory Projects

Current Air Rules

Division Forms (Application, Report, Notification)

Events & Public Notices

Florida Administrative Code & Florida Administrative Register

Florida Statutes

Guidance Memos

U.S. EPA's National Ambient Air Quality Standards Table

All Office of Business Planning Content

The [Florida Administrative Code \(F.A.C.\)](#) rule chapters listed on this page contain the state rules that the DEP currently uses to regulate air pollution in Florida.

(Note: Chapter 62-4, F.A.C., includes general DEP permitting requirements applicable to all regulatory programs: Air, Waste, and Water.)

For current federal air pollution regulations that are applicable in Florida, please see [Title 40 of the Code of Federal Regulations](#).

For former state air pollution rules, please see the [Florida Department of State's Florida Administrative Code and Florida Administrative Register](#).

F.A.C. Chapter	Title	Date Effective or Last Amended
<a href="#">62-4</a>	Permits	February 17, 2016
<a href="#">62-204</a>	Air Pollution Control - General Provisions	December 21, 2017
<a href="#">62-210</a>	Stationary Sources - General Requirements	June 22, 2017
<a href="#">62-212</a>	Stationary Sources - Preconstruction Review	March 28, 2012
<a href="#">62-213</a>	Operation Permits for Major Source of Air Pollution	December 31, 2013
<a href="#">62-214</a>	Requirements for Sources Subject to the Federal Acid Rain Program	March 11, 2010
<a href="#">62-243</a>	Tampering with Motor Vehicle Air Pollution Control Equipment	July 13, 2017
<a href="#">62-252</a>	Gasoline Vapor Control	September 24, 2013
<a href="#">62-256</a>	Open Burning	October 6, 2008
<a href="#">62-257</a>	Asbestos Program	February 16, 2012
<a href="#">62-285</a>	Greenhouse Gas Emissions Reduction	February 16, 2012
<a href="#">62-296</a>	Stationary Sources - Emission Standards	February 8, 2017
<a href="#">62-297</a>	Stationary Sources - Emissions Monitoring	March 9, 2015

<https://floridadep.gov/air/air-bu-planning/content/current-air->

- CURRENT RULES FOR
- CAN WALK THROUGH BY ITEM.

# FLORIDA DEP: CHROMIUM ELECTROPLATERS PAGE

The screenshot shows the Florida Department of Environmental Protection (DEP) website page for Chromium Electroplaters. The page features a navigation menu at the top with links for 'About DEP', 'How Do I...', 'Divisions', 'Air', 'Lands', 'Parks & Rec', 'Waste', and 'Water'. A search bar is located below the navigation menu. The main content area is titled 'Chromium Electroplaters' and includes a breadcrumb trail: 'Home > Divisions > Division of Air Resource Management > Office of Permits and Compliance > Chromium Electroplaters'. The page is divided into several sections: 'Office of Permitting and Compliance Quick Links' (with links for Accidental Release Prevention, Air Emissions Inventory, Air Compliance and Enforcement Section, Annual Operating Report, Asbestos, Compliance Data - AirInfo, Small Business Environmental Assistance Program, Title V Fees, Air Permitting Section, Air Permit Documents Search, Map of Air Permitted Facilities: 10 Important Source Categories, Map of Active Facilities with Current Air Permits, Electronic Permit Submittal and Processing System, General Permits, Permit Application Subscription Service, DEP Business Portal, DEP Enterprise Information Portal, Division Forms Application, Report, Notification, How to Find Air Documents Online, User Account Registration (EAOR, EPSAR), and All Office of Permitting and Compliance Content), 'Chromium Electroplaters' (describing the process and its purpose), 'Registration' (explaining the Air General Permit (AGP) process and providing a link to the Air General Permit Electronic Registration System (AGPERS)), and 'Compliance Assistance Information' (providing links to the Compliance Calendar for Chromium Electroplaters, Facility Self-inspection Form for Chromium Electroplating and Anodizing Tanks, Facility Self-inspection Form for Chromium Electroplating and Anodizing Tanks (Printer-friendly PDF), EPA Regulation Controlling Air Emissions from Chromium Electroplating and Anodizing Tanks, and National Metal Finishing Resource Center). The page also includes a 'Last Modified' date of November 16, 2017 - 2:30pm and social media sharing options.

<https://floridadep.gov/air/permits/compliance/content/chromium-electroplaters>

- UPDATED CHROMIUM ELECTROPLATERS PAGE
- SIMILAR INFORMATION
- CHROMIUM CALENDAR OUT FOR 2018
- CREATED SELF INSPECTION FORM FOR CHROMIUM

# FLORIDA DEP: CHROMIUM SELF INSPECTION FORM

<https://floridadep.gov/air/permits/compliance/content/chromium-electroplaters>

Requirements for <i>Open Surface</i> HARD CHROMIUM ELECTROPLATING TANKS <sup>1</sup>		
Existing Affected Sources...		New Affected Sources <sup>2</sup>
...at a <i>Large Facility</i> (max cumulative potential rectifier capacity $\geq$ 60 million amp-hr/year)	...at a <i>Small Facility</i>	
<p>Concentration of total chromium in the exhaust gas stream discharged to the atmosphere from all open surface hard chromium electroplating tanks at the facility shall not exceed <b>0.011 mg/dscm</b> of ventilation air (<math>4.8 \times 10^{-6}</math> gr/dscf).  <b>Maximum concentration:</b>  <input type="text"/> ; or</p> <p>If a chemical fume suppressant containing a wetting agent is used, the <b>surface tension</b> of the electroplating or anodizing bath contained within the affected tank:</p> <p><input type="checkbox"/> shall not exceed <b>40 dynes/cm</b> (<math>2.8 \times 10^{-3}</math> lbf/ft) as measured by a <b>stalagmometer</b>; or</p> <p><input type="checkbox"/> shall not exceed <b>33 dynes/cm</b> (<math>2.3 \times 10^{-3}</math> lbf/ft) as measured by a <b>tensiometer</b>;</p> <p>at any time during tank operation.  <b>Maximum surface tension:</b>  <input type="text"/></p>	<p>Concentration of total chromium in the exhaust gas stream discharged to the atmosphere from all open surface hard chromium electroplating tanks at the facility shall not exceed <b>0.015 mg/dscm</b> of ventilation air (<math>6.6 \times 10^{-6}</math> gr/dscf).  <b>Maximum concentration:</b>  <input type="text"/> ; or</p> <p>If a chemical fume suppressant containing a wetting agent is used, the <b>surface tension</b> of the electroplating or anodizing bath contained within the affected tank:</p> <p><input type="checkbox"/> shall not exceed <b>40 dynes/cm</b> (<math>2.8 \times 10^{-3}</math> lbf/ft) as measured by a <b>stalagmometer</b>; or</p> <p><input type="checkbox"/> shall not exceed <b>33 dynes/cm</b> (<math>2.3 \times 10^{-3}</math> lbf/ft) as measured by a <b>tensiometer</b>;</p> <p>at any time during tank operation.  <b>Maximum surface tension:</b>  <input type="text"/></p>	<p>Concentration of total chromium in the exhaust gas stream discharged to the atmosphere from all open surface hard chromium electroplating tanks at the facility shall not exceed <b>0.006 mg/dscm</b> of ventilation air (<math>2.6 \times 10^{-6}</math> gr/dscf).  <b>Maximum concentration:</b>  <input type="text"/> ; or</p> <p>If a chemical fume suppressant containing a wetting agent is used, the <b>surface tension</b> of the electroplating or anodizing bath contained within the affected tank:</p> <p><input type="checkbox"/> shall not exceed <b>40 dynes/cm</b> (<math>2.8 \times 10^{-3}</math> lbf/ft) as measured by a <b>stalagmometer</b>; or</p> <p><input type="checkbox"/> shall not exceed <b>33 dynes/cm</b> (<math>2.3 \times 10^{-3}</math> lbf/ft) as measured by a <b>tensiometer</b>;</p> <p>at any time during tank operation.  <b>Maximum surface tension:</b>  <input type="text"/></p>
<p>The addition of Perfluorooctane sulfonic acid (PFOS)-based fume suppressants<sup>3</sup> to any affected open surface hard chromium electroplating tank is <b>prohibited</b>.  <b>Have any been added?</b> Yes <input type="checkbox"/> No <input type="checkbox"/></p>	<p>The addition of Perfluorooctane sulfonic acid (PFOS)-based fume suppressants<sup>3</sup> to any affected open surface hard chromium electroplating tank is <b>prohibited</b>.  <b>Have any been added?</b> Yes <input type="checkbox"/> No <input type="checkbox"/></p>	<p>The addition of Perfluorooctane sulfonic acid (PFOS)-based fume suppressants<sup>3</sup> to any affected open surface hard chromium electroplating tank is <b>prohibited</b>.  <b>Have any been added?</b> Yes <input type="checkbox"/> No <input type="checkbox"/></p>

<sup>1</sup>**Chromium electroplating tank** means the receptacle or container along with the following internal and external components needed for chromium electroplating: rectifiers; anodes; heat exchanger equipment; circulation pumps; and air agitation systems. **Open surface** means the tank is ventilated at a rate consistent with good ventilation practices for open tanks. (**Enclosed** means the tank is equipped with an enclosing hood and ventilated at half the rate, or less, of an open surface tank of the same area.) **Hard chromium electroplating** means a process by which a thick layer of chromium (typically 1.3 to 760 microns) is electrodeposited on a base material.

<sup>2</sup> **New affected source** means the construction or reconstruction of the source commenced after 2/8/2012. **Reconstruction** means replacement of tank components, which were replaced to an extent that the fixed capital cost of the new components exceeded 50% of the fixed capital cost that would be required to construct a comparable new source.

<sup>3</sup> **Perfluorooctyl sulfonate (PFOS)-based fume suppressant** means a fume suppressant that contains 1 percent or greater PFOS

- FLA DEP CREATED A "INSPECTION" FORM FOR CHROMIUM.
- FILLABLE PDF STYLE, PRINT AND CALCULATE HAND.

# FLORIDA DEP: SMALL BUSINESS ASSISTANCE PAGE

<https://floridadep.gov/air/perm/compliance/content/small-business/assistance>

## Small Business Assistance

Home » Divisions » Division of Air Resource Management » Office of Permitting and Compliance » Small Business Assistance

### Office of Permitting and Compliance Quick Links

- Accidental Release Prevention
- Air Emissions Inventory
- Contacts by Key Industry and Key Program
- Air Compliance and Enforcement Section
- Annual Operating Report
- Asbestos
- Compliance Data - AirInfo
- Small Business Environmental Assistance Program
- Title V Fees
- Air Permitting Section
- Air Permit Documents Search
- Map of Air Permitted Facilities: 10 Important Source Categories
- Map of Active Facilities with Current Air Permits
- Electronic Permit Submittal and Processing System
- General Permits
- Permit Application Subscription Service

### Small Business Environmental Assistance Program

#### About the Program

The Small Business Environmental Assistance Program (SBEAP), established under Section 507 of the Clean Air Act, is a resource available to help small businesses understand and comply with environmental regulations. Florida's SBEAP is housed within the Department of Environmental Protection's Division of Air Resource Management. Although the SBEAP is primarily air-focused, staff either provides direct assistance with multimedia questions or refers customers to the appropriate environmental program area. To qualify for assistance as a small business, the business must have fewer than 100 employees, release less than 75 tons of all regulated air pollutants and release less than 50 tons of any single regulated air pollutant.

- [SBEAP General Information Flier](#)

#### Services

Florida's SBEAP provides free and confidential environmental permitting and compliance assistance to small businesses through a variety of services including:

##### Phone or Email Consultations

- SBEAP Hotline Number: 1-800-722-7457
- SBEAP Email: [Small.Business@floridadep.gov](mailto:Small.Business@floridadep.gov)

##### Referrals to other Environmental Programs

- [Environmental Assistance Directory](#)

##### Regulatory Updates and Resources

The SBEAP disseminates news and information on environmental regulations that may affect small businesses and develops fact sheets, booklets, forms and other materials for specific industries covered under the [Air General Permit Program](#). Visit the [National Small Business Environmental Assistance Program](#) for more comprehensive regulatory updates and other resources for small businesses.

#### Outreach and Education

The SBEAP also partners with various organizations and trade associations to help protect the interests of small businesses and enhance awareness and compliance with environmental regulations.

##### Industry Associations

- [Dry Cleaner South Eastern Fabricare Association](#)
- [Florida Concrete and Products Association](#)
- [Florida Cemetery, Cremation & Funeral Association](#)
- [National Metal Finishing Resource Center](#)
- [Paints and Coatings Resource Center](#)
- [Printed Wiring Board Resource Center](#)

- UPDATED SMALL BUSINESS ASSISTANCE PAGE
- SIMILAR INFORMATION
- CONTACTS FOR COMPLIANCE ASSISTANCE (AIR)
- SBEAP CONTACT STILL JESSICA DALTON
- CHROMIUM CALENDAR OUT FOR 2018

# FLORIDA DEP SMALL BUSINESS ENVIRONMENTAL ASSISTANCE PROGRAM



## Our Mission

To help Florida's small business community achieve and maintain regulatory compliance by providing free and confidential support, education, outreach and advocacy.

## Our Vision

Through active partnerships with trade associations, private industries and government entities, we envision a future where Florida's small businesses routinely use sound practices and innovative solutions to protect our environment, thus minimizing the need for environmental regulation.

## Contact Us

**SBEAP Toll Free Hotline:**  
1-800-722-7457

**SBEAP Email:**  
[Small.Business@dep.state.fl.us](mailto:Small.Business@dep.state.fl.us)

## Website

[www.dep.state.fl.us/air/emission/sbeap/program.htm](http://www.dep.state.fl.us/air/emission/sbeap/program.htm)

## About the Program

The Small Business Environmental Assistance Program (SBEAP), established under Section 507 of the Clean Air Act, is a resource available to help small businesses understand and comply with environmental regulations. The Florida SBEAP is housed within the Department of Environmental Protection's Division of Air Resource Management. Although the SBEAP is primarily air-focused, staff can either provide direct assistance with multimedia questions or refer customers to the appropriate environmental program area.

## Services Provided

The SBEAP provides free and confidential assistance to small businesses through a variety of services including:

- One-on-one phone consultations to help understand air regulations that apply to your business, or to assist with obtaining appropriate air permits.
- Referrals to other environmental program areas.
- Coordination of on-site visits by Department staff to help troubleshoot environmental compliance issues or advise on pollution prevention solutions.
- Guidance documents, factsheets, forms and other resource materials specific to your business.
  - These materials can be mailed upon request or downloaded from the SBEAP Resource Library Webpage at: [www.dep.state.fl.us/air/emission/sbeap/sbeap.htm](http://www.dep.state.fl.us/air/emission/sbeap/sbeap.htm).
- Outreach and Advocacy
  - The SBEAP partners with various organizations and trade associations to help protect the interests of small businesses and enhance awareness and compliance with environmental regulations.

## News and Information

The Air General Permit (AGP) Registration Program was established for various types of facilities meeting the criteria provided in Rule 62-210.310, Florida Administrative Code. An AGP is an authorization by rule to construct and operate a specific type of air pollutant emitting facility. The following facilities are included in the registration program:

- Asbestos Manufacturing and Fabrication Facilities
- Animal Crematory
- Bulk Gasoline Plants
- Cast Polymer Operations
- Chromium Electroplaters
- Concrete Batching Plants
- Dry Cleaners using Perchloroethylene
- Ethylene Oxide Sterilizers
- Halogenated Solvent Degreaser
- Human Crematory
- Mercury Recovery and Reclamation
- Nonmetallic Mineral Processing Plants
- Printing Operations
- Reciprocating Internal Combustion Engines
- Reinforced Polyester Resin Operations
- Secondary Aluminum Sweat Furnace
- Surface Coating Operations



The Department recently implemented the **Air General Permit Electronic Registration System (AGPERS)**. AGPERS is an automated registration system that allows businesses to register, renew, transfer or make administrative corrections to AGPs online, saving time and money.

To access AGPERS go to: [www.dep.state.fl.us/air/emission/agpers.htm](http://www.dep.state.fl.us/air/emission/agpers.htm)

[www.dep.state.fl.us/air/emission/sbeap/sbeap.htm](http://www.dep.state.fl.us/air/emission/sbeap/sbeap.htm)

## • SMALL BUSINESS ENVIRONMENTAL ASSISTANCE PROGRAM

- Primarily air-focused, provide direct assistance on air, water, and waste questions or refer them to other Florida EPA Divisions

## • ASSISTANCE HOTLINE

## • CALL WITH CAUTION

# ROAD MAP



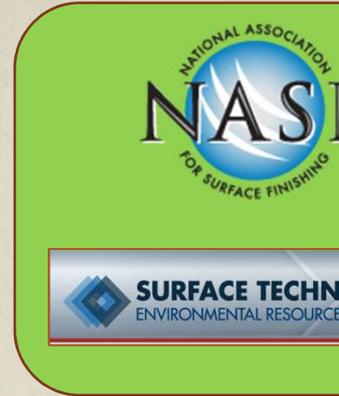
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## FLORIDA DEP PROPOSED BUDGET

# FLORIDA ENVIRONMENTAL BUDGET

<http://fightingforfloridasfuturebudget.com/20forms/Budget/BudgetAgency.a>

[HOME](#)
[SECURING FLORIDA'S FUTURE](#)
[2018-2019 BUDGET](#)
[INFORMATION & REPORTS](#)
[SEARCH](#)

AGENCIES  
 Primary Budget: 
 Comparison Budget:

How Funding Source	Governor's Recommendations 2018-19		Current Year Budget 2017-18		Difference	
	Dollars	Positions	Dollars	Positions	Dollars	Positions
AD FUND (STATEWIDE)	\$42,806,100	0.00	\$95,575,085	0.00	(\$52,768,985)	0.00
HEALTH CARE ADMINISTRATION	\$28,777,460,867	1,536.50	\$28,103,609,162	1,533.50	\$673,851,705	3.00
PERSONS WITH DISABILITIES	\$1,439,262,407	2,702.50	\$1,288,692,961	2,702.50	\$150,569,446	0.00
LAND CONSUMER SERVICES	\$1,704,674,863	3,653.25	\$1,757,248,556	3,653.25	(\$52,573,693)	0.00
PROFESSIONAL REGULATION	\$153,579,666	1,615.25	\$153,535,867	1,617.25	\$43,799	(2.00)
CHILD FAMILIES	\$3,176,091,778	12,032.50	\$3,173,988,109	11,975.50	\$2,103,669	57.00
	\$31,133,781	39.00	\$33,130,494	41.00	(\$1,996,713)	(2.00)
	\$2,643,647,006	24,746.00	\$2,487,426,974	24,238.00	\$156,220,032	508.00
OPPORTUNITY	\$1,201,258,912	1,467.50	\$1,096,957,807	1,475.00	\$104,301,105	(7.50)
	\$25,079,436,512	2,310.75	\$24,925,280,551	2,315.75	\$154,155,961	(5.00)
	\$320,325,326	406.50	\$314,153,570	421.50	\$6,171,756	(15.00)
NATURAL PROTECTION	\$1,702,815,569	2,878.50	\$1,475,490,660	2,899.50	\$227,324,909	(21.00)
OFFICE OF THE GOVERNOR	\$1,425,440,705	431.00	\$420,225,075	431.00	\$1,005,215,630	0.00
SERVICES	\$374,110,387	2,582.50	\$373,325,570	2,607.50	\$784,817	(25.00)
WILDLIFE CONSERVATION COMMISSION	\$389,721,661	2,143.50	\$372,433,417	2,118.50	\$17,288,244	25.00
COMMISSION ON OFFENDER REVIEW	\$10,472,467	132.00	\$10,674,022	132.00	(\$201,555)	0.00
	\$2,963,871,928	13,746.82	\$2,924,087,327	13,746.82	\$39,784,601	0.00
SAFETY AND MOTOR VEHICLES	\$487,024,723	4,374.00	\$482,960,083	4,374.00	\$4,064,640	0.00
ADMINISTRATION	\$908,270,009	10,431.78	\$903,361,306	10,383.50	\$4,908,703	48.28
JUSTICE	\$593,442,680	3,272.50	\$570,321,176	3,269.50	\$23,121,504	3.00
REGULATORY	\$297,358,961	1,900.00	\$295,046,178	1,890.00	\$2,312,783	10.00
REGISTRATION	\$302,266,302	1,401.50	\$298,728,059	1,396.50	\$3,538,243	5.00
REGISTRATION BRANCH	\$208,877,017	0.00	\$208,329,246	0.00	\$547,771	0.00
	\$176,055,087	418.50	\$168,009,070	418.50	\$8,046,017	0.00
REGISTRATION SERVICES	\$684,454,582	1,282.50	\$683,598,503	1,284.50	\$856,079	(2.00)
REGISTRATION SERVICES	\$67,033,105	451.00	\$72,821,710	453.00	(\$5,788,605)	(2.00)
REGISTRATION COMMISSION	\$24,897,370	265.00	\$25,001,711	267.00	(\$104,341)	(2.00)
	\$588,392,917	5,024.00	\$580,147,765	5,058.00	\$8,245,152	(34.00)
	\$109,737,087	413.00	\$118,334,035	408.00	(\$8,596,948)	5.00
REGISTRATION SYSTEM	\$535,141,773	4,262.00	\$536,247,953	4,304.50	(\$1,106,180)	(42.50)
REGISTRATION SYSTEM	\$10,842,548,685	6,209.00	\$10,853,761,268	6,299.00	(\$11,212,583)	(90.00)
REGISTRATION SERVICES	\$113,285,443	1,263.50	\$150,630,827	1,112.50	(\$37,345,384)	151.00
<b>Total: Agencies</b>	<b>\$87,374,895,676</b>	<b>113,392.35</b>	<b>\$84,953,134,097</b>	<b>112,827.07</b>	<b>\$2,421,761,579</b>	<b>565.28</b>

- GOV. SCOTT 2018 – 2019 BUDGET PROPOSAL
- GOVERNOR'S SITE CLAIM INCREASES ENVIRONMENTAL PROTECTION BUDGET \$100 MILLION
- DIFFICULT TO DISCERN HOW MUCH IS HURRICANE RECOVERY FOR BEACHES VS. NATURAL SPRINGS VS. COMPLIANCE ASSISTANCE ENFORCEMENT AT THIS

# FLORIDA ENVIRONMENTAL BUDGET

The screenshot shows a web browser window with the URL [fl-counties.com/2017-2018-florida-legislatures-proposed-state-budget-general-overview](http://fl-counties.com/2017-2018-florida-legislatures-proposed-state-budget-general-overview). The page header features the Florida Association of Counties (FAC) logo with the tagline "All About Florida" and navigation links for "LOGIN" and "DIRECTOR". The main content area includes a paragraph about Delinquency Prevention Programs, followed by a section titled "AGRICULTURAL AND ENVIRONMENTAL" with several bullet points detailing funding for beach projects, beach recovery funds, springs restoration, mosquito control, drinking water facility construction, and wastewater revolving loan programs. A section titled "TRANSPORTATION AND ECONOMIC DEVELOPMENT" is also visible at the bottom of the screenshot.

fl-counties.com/2017-2018-florida-legislatures-proposed-state-budget-general-overview

FLORIDA ASSOCIATION OF COUNTIES  
All About Florida

LOGIN DIRECTOR

ABOUT ADVOCACY

- **Delinquency Prevention Programs** are budgeted at a total of \$79.5 million, which is equal to the current 2016-2017 year funding. Included in this is \$2.8 million in new funding for **PACE Centers for Girls**, bringing the total funding for the PACE programs to more than \$19 million.

**AGRICULTURAL AND ENVIRONMENTAL**

- **Beach projects:** \$50 million is provided for grants and aids to local governments and non-state entities for beach management assistance, which represents an increase of nearly \$18 million over the current year funding.
- \$13.3 million in General Revenue for **beach recovery funds** to be used for beach and dune repair and restoration projects in areas damaged by Hurricanes Matthew and Hermine. The funds will cover up to 50 percent of total project costs, to be matched by other federal or local funds. These funds are in addition to unobligated funds provided through Executive Orders by the Governor.
- **Springs restoration:** \$50 million from the land acquisition trust fund is provided for land acquisition to protect springs and for capital projects that protect the quality and quantity of water that flow from springs. This is equal to the current year level of funding.
- \$3 million for **Small County Solid Waste Management** grants, \$13 million for **Small County Wastewater Treatment** grants, and \$1.7 million for **Local Parks**.
- **Mosquito control programs:** More than \$2.7 million, which is an increase of more than \$100,000 compared to the current year funding level.
- **Drinking water facility construction revolving loan program:** \$97,645,073 (\$6,888,200 from General Revenue; \$90,756,873 from Drinking Water Revolving Loan Trust Fund). This is an \$6.7 million decrease compared to the current year 2016-2017 budget.
- **Wastewater revolving loan program:** \$142,688,031 (\$6,540,800 from general revenue; \$136,147,231 from the wastewater treatment and storm water management revolving loan trust fund). This is approximately \$8.5 million less than the current year's funding level.

**TRANSPORTATION AND ECONOMIC DEVELOPMENT**

<http://fl-counties.com/2017-2018-legislatures-proposed-state-budget-overview>

- FLORIDA ASSOCIATION OF COUNTIES
- COMPARES CURRENT PROPOSED BUDGETS
- DIFFICULT TO DIVE DEEPER
- SIGNIFICANT INVESTMENT IN BEACH RECOVERY AND SPRINGS RESORATION

# ROAD MAP



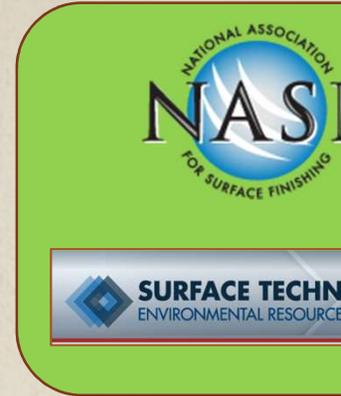
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## FLORIDA FUNDING

# VOLKSWAGEN EMISSIONS SCANDAL: PLACE A “LOCAL FREIGHT TRUCK”?

The department will solicit public input to help inform the development of Florida’s Mitigation Plan. Additional information and instructions on how to submit comments will be provided at a future date. The state’s Mitigation Plan is not a formal solicitation for project proposals.

## Eligible Mitigation Actions

[Appendix D-2](#) of the [Environmental Mitigation Trust Agreement for State Beneficiaries](#) specifies 10 types of projects eligible for the Mitigation Trust Fund.

These projects are different from the options available to owners/lessees of VW vehicles. VW owners/lessees should visit [www.VWCourtSettlement.com](http://www.VWCourtSettlement.com) for information on vehicle buyback and modification options under the Class Settlement Program.

Trust funds may be used to pay some or all of the cost to repower or replace eligible diesel-powered vehicles with new diesel vehicles or engines, alternative fueled vehicles or engines, or replacements with all-electric vehicles or engines. Both privately-owned and government-owned fleets are potentially eligible to receive funding. The settlement expressly requires that the old vehicles and/or diesel engines be scrapped.

[Appendix D-2](#) to the [Environmental Mitigation Trust Agreement for State Beneficiaries](#) provides detail on eligible equipment categories, model years, and the percentages of matching costs that funding recipients must provide. There are 10 categories of Eligible Mitigation Actions:

1. Repower or replace Class 8 local freight trucks and port drayage trucks with new diesel, alternative fuel or electric engines;
2. Repower or replace Class 4 – Class 8 school buses, shuttle buses, or transit buses with new diesel, alternative fuel or electric engines;
3. Repower or replace Class 4 – Class 7 local freight trucks with new diesel, alternative fuel, or electric engines;
4. Repower or replace Pre-Tier 4 diesel switcher locomotives with new diesel, alternative fuel, or electric engines;
5. Repower or upgrade diesel-powered ferries and tugs with new diesel or alternative fuel engines;
6. Provide electric shorepower equipment for oceangoing vessels;
7. Repower or replace diesel-powered airport ground support equipment with electric engines;
8. Repower or replace large forklifts and port cargo handling equipment with electric engines;
9. Build new light duty zero emission vehicle supply equipment (electric charging or hydrogen dispensing stations); and
10. Use trust funds to provide matching funds for state allocation of funding under the [Diesel Emission Reduction Act \(DERA\)](#).

Additional information on Florida’s participation in the DERA program can be found [here](#).

<https://floridadep.gov/air/a/director/content/volkswagen-settlement-florida-mitigation-fund>

- VW EMISSIONS SCANDAL SETTLEMENT TRUST FUND EXPECTED COMPLETION JANUARY 2018.
- PROVIDES FUNDING TO “REPOWER OR REPLACE CLASS 7 & 8 LOCAL FREIGHT TRUCKS, SCHOOL BUSES
- PRIVATELY OR PUBLICLY OWNED VEHICLES.
- APPLICATIONS OPENING SOON IN FLORIDA

# FUNDING SOURCES

<https://www.sba.gov/loans-grants/what-sba-offers>

## Loans & Grants

Video: SBA Loans Explained ▶

Connect with SBA Lenders ▶

Blogs on Financing ▶

Loans & Grants » See What SBA Offers

### Grants

#### SBA Offers

SBA Offers to Help Small Businesses Grow

Loan Programs

Investments

Surety Bonds

What SBA Doesn't Offer

How to Apply

How to Connect with SBA Lenders

Other Sources for Financing

### See What SBA Offers

#### What SBA Offers to Help Small Businesses Grow

What does SBA offer to small business owners? The programs are varied and the qualifications for each are specific. Understanding how SBA works is the first step towards receiving assistance.

#### Surety Bonds

A surety bond is a document signed by the contractor and the surety company that assures the project owner the contract will be completed.

#### SBA Loan Programs

SBA offers a variety of loan programs for very specific purposes. Take some time to study the programs described in this section, to see if you qualify to participate.

#### What SBA Doesn't Offer

SBA does not provide grants for starting and expanding a business. Government grants are funded by tax dollars and require very stringent compliance and reporting measures.

#### SBIC Investments

In 1958, Congress created the Small Business Investment Company (SBIC) program to facilitate the flow of long-term capital to America's small businesses. SBA does not provide capital directly to...

- SMALL BUSINESS ADMINISTRATION
- STATE COMMERCE OR DEVELOPMENT DEPARTMENTS
- LOCAL TAX AND OTHER INCENTIVES

# INCUMBENT TRAINING PROGRAM



Business

## Grants to Upgrade Employees' Skills

When workers lack needed training, businesses experience skills gaps. A company's ability to retain workers, grow and prosper can be compromised. Florida's Incumbent Worker Training grants can help. The program provides grants for continuing education and training of current full-time employees at Florida companies.

With a focus on helping Florida's small businesses, the grants reimburse companies up to 75 percent for pre-approved training costs. Companies choose their training provider based on the skills needed. Applying online is easy and approval is quick.

Find out what documentation and information you'll need before applying and check out a [sample application](#) now.

[Apply for a Grant Now](#)

[Manage Your Account](#)

<https://careersourceflorida.com/training/grant/#Grants>

- **TRAINING PROGRAM**
  - INCUMBENT WORKER TRAINING
  - QUICK RESPONSE TRAINING

# INCUMBENT TRAINING PROGRAM

W

training and businesses experience skill gaps, the company's ability to compete, can be compromised. Florida's Incumbent Worker Training (IWT) Program, under the Workforce Innovation and Opportunity Act (WIOA), and administered by CareerSource Florida, provides grant funding for the training of incumbent employees at existing Florida businesses. The program provides grants to businesses that pay for preapproved, direct, training related costs. Businesses that receive a reimbursement rate up to 50% or 75% (see Funding Priorities below for details).

Established Florida businesses upgrade the skills of their current employees which provides benefits to include:

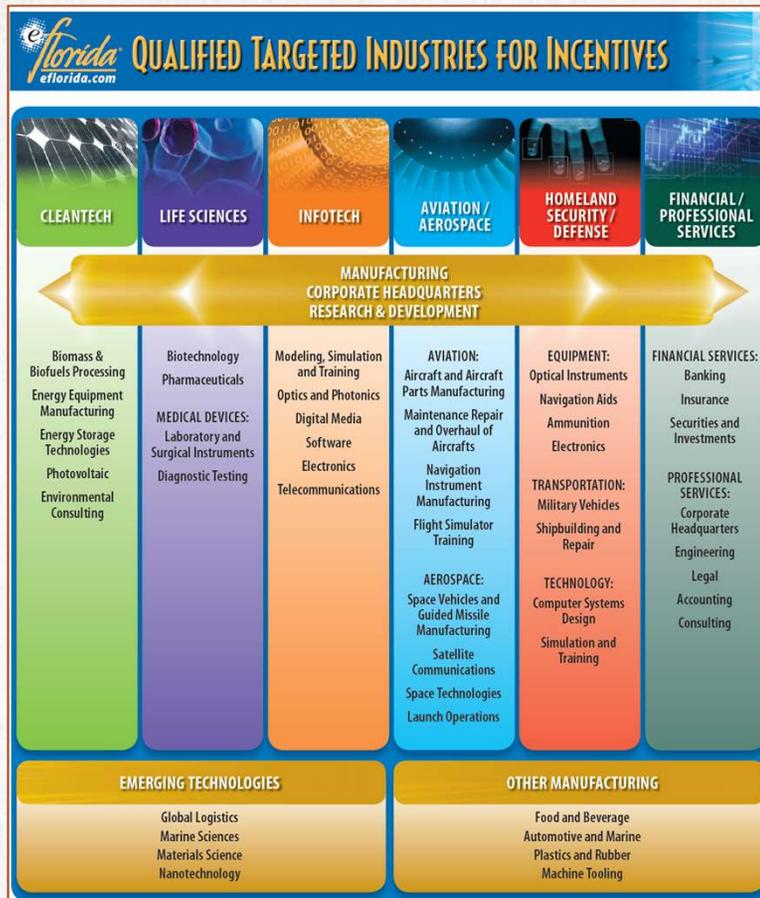
<p>Competitiveness</p> <p>Workforce</p> <p>Productivity</p> <p>Profits</p> <p>Growth</p> <p>Turnover</p>	<p><b>For employees:</b></p> <ul style="list-style-type: none"> <li>Advancement Opportunities</li> <li>Increased Job Opportunities</li> <li>Industry Recognized Credentials</li> <li>Job Retention</li> <li>Transportable/Transferrable Skills</li> </ul>
--	---

S

to apply for funding will be eligible to have up to 50% of their direct training costs reimbursed through their approved IWT grant. For companies that meet specific criteria, the reimbursement percentage is increased to 75%. These specific criteria include:

- employees
- in a rural county, distressed area, Brownfield or Hub zone
- priority is given to:
- applicants;
- more than 50 employees;
- in a qualified targeted industry;
- grant proposals represent a significant upgrade in employee skills;
- grant proposals represent a significant layoff avoidance strategy.

Grant proposals that do not include an increased reimbursement percentage, applications that meet the criteria will receive priority during times of limited funding.



<https://careersourceflorida.com/training/grant/#Grants>

- **TRAINING PROGRAM**
- 50% – 75% REIMBURSEMENT
- FOR INCUMBENT WORKERS
- TRAINING
- TARGET INDUSTRIES

# QUICK RESPONSE TRAINING PROGRAM

## Program Overview

The Quick Response Training program, is designed to increase the competitiveness of Florida businesses in the global economy. In existence since 1993 and lauded by economic developers and national business groups, the program continues to play a vital role in the state's overall economic development efforts. The Quick Response Training program provides grant funding for customized, skills-based curriculum development and training, through partial reimbursement, to new or expanding businesses in Florida's targeted industries ([qualified targeted industries](#)). These are high-skill industries with exportable goods or services and wages of 125 percent above state or local wages.

The program is cited by economic developers as the number one program with the largest impact on their ability to win multi-state contracts. Furthermore, the U.S. Chamber of Commerce and the National Chamber Foundation have recognized the success of the Quick Response Training program over the past several years in their annual rankings.

The Quick Response Training application process is designed as a collaborative effort between the business requesting training, its chosen fiscal agent – a community or state college, area technical center or state university – and the local economic development organization. [See section 288.047(3), *Florida Statutes*.]

The program is a state-funded grant program that provides funding to qualifying businesses to train their net new, full-time employees. Funding is provided in the form of a performance-based reimbursable grant, for a 12-month maximum term. A business pays for pre-approved, direct training-related costs and is reimbursed by CareerSource Florida, through the fiscal agent, upon submission of required documentation.

All applications for new and expanding businesses creating new high-quality jobs will be given equal consideration and are processed on a first-come, first-served basis.

<https://careersourceflorida.com/training/grant/#Grants>

- **TRAINING PROGRAM**
  - GRANT FUNDING FOR WORKER TRAINING
  - NEW OR EXPANDING BUSINESSES
  - TARGET INDUSTRIES
  - EXPORTABLE GOODS & SERVICES
  - WAGES OF 125% ABOVE STATE OR LOCAL WAGES

# ROAD MAP



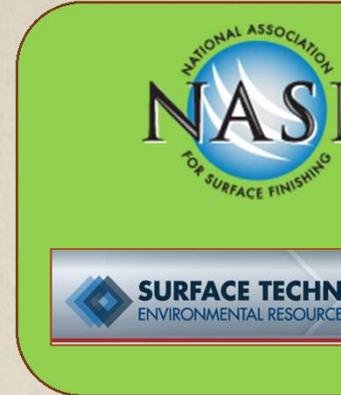
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## RESOURCES

# NATIONAL ASSOCIATION OF SURFACE FINISHERS (NASF)

[www.nasf.org](http://www.nasf.org)

**LEADERSHIP CONFERENCE**

ABOUT ADVOCACY NEWS EDUCATION RESOURCES EVENTS CONTRIBUTE CONTACT DIRECTORY MY PROFILE

**JOIN US IN KOLOA, KAUAI, HAWAII!**

**FEB. 25 - MAR. 1, 2018 | GRAND HYATT KAUAI RESORT & SPA**

The NASF Leadership Conference draws over 100 participants from around the country to meet, reconnect, and discuss a diverse range of topics including the latest developments in manufacturing and production, crises management and ongoing regulatory challenges.

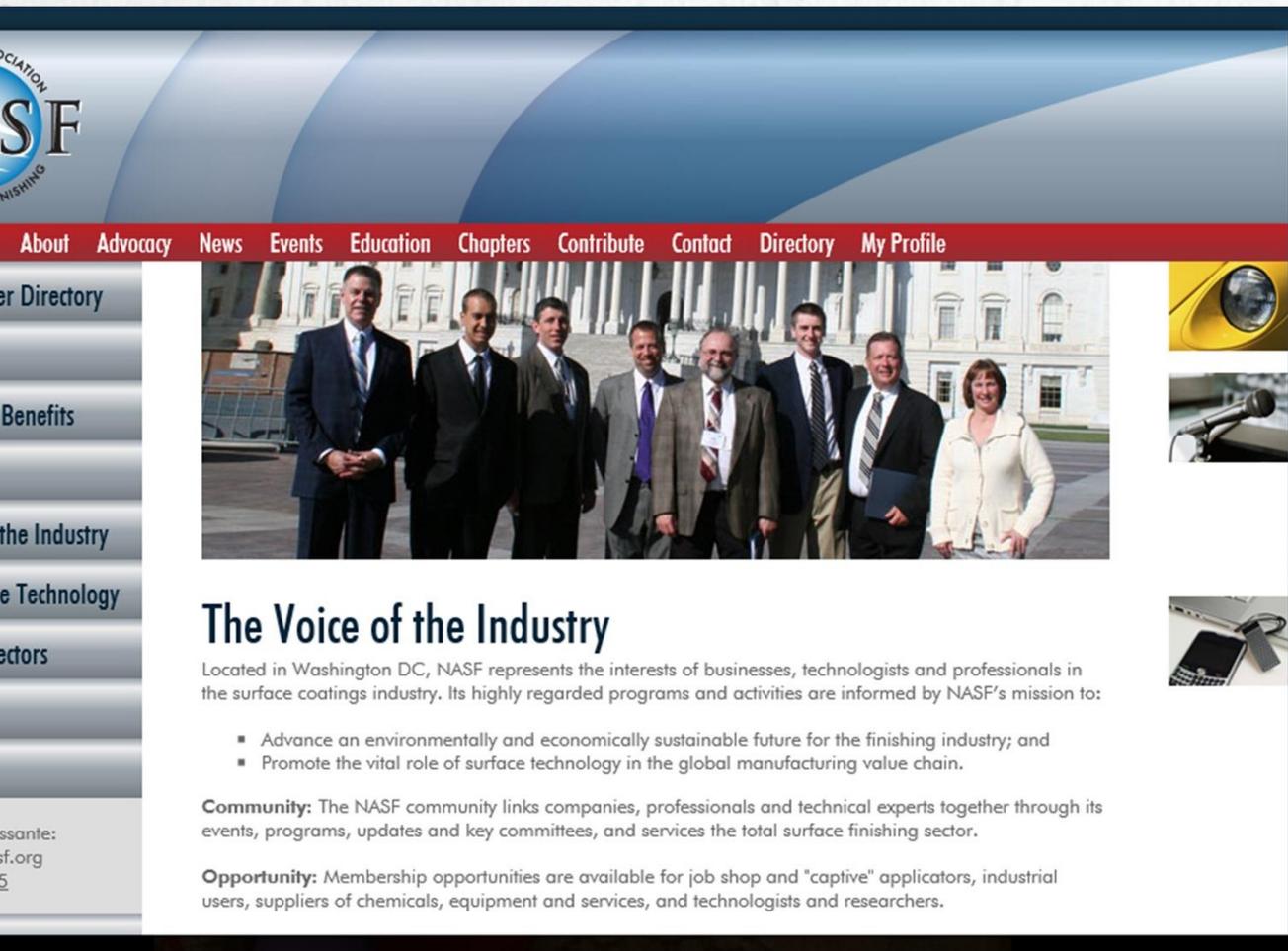
Set in some of North America's most beautiful surroundings, the Leadership Conference also provides participants with ample opportunities for networking and family fun with social events and optional activities that appeal to all abilities and levels of adventure.

It's time to step back, sort through, re-invest and experience work from a different perspective. **Book your room today**, and check back often for more details on our seminars and events.

- ADVOCACY
- NEWS & EDUCATION
- ASSISTANCE

# NASF ADVOCACY

[www.nasf.org](http://www.nasf.org)



The screenshot shows the NASF website's advocacy page. At the top left is the NASF logo. A red navigation bar contains links for About, Advocacy, News, Events, Education, Chapters, Contribute, Contact, Directory, and My Profile. A sidebar on the left lists: Member Directory, Benefits, The Industry, Technology, and Sectors. The main content area features a large photo of a group of nine people in business attire standing in front of a classical building with columns. Below the photo is the heading "The Voice of the Industry" and a paragraph stating that NASF represents the interests of businesses, technologists, and professionals in the surface coatings industry in Washington DC. A bulleted list outlines the mission: to advance an environmentally and economically sustainable future and to promote the vital role of surface technology. Below this, sections for "Community" and "Opportunity" describe the organization's role in linking industry members and providing membership opportunities.

## The Voice of the Industry

Located in Washington DC, NASF represents the interests of businesses, technologists and professionals in the surface coatings industry. Its highly regarded programs and activities are informed by NASF's mission to:

- Advance an environmentally and economically sustainable future for the finishing industry; and
- Promote the vital role of surface technology in the global manufacturing value chain.

**Community:** The NASF community links companies, professionals and technical experts together through its events, programs, updates and key committees, and services the total surface finishing sector.

**Opportunity:** Membership opportunities are available for job shop and "captive" applicators, industrial users, suppliers of chemicals, equipment and services, and technologists and researchers.

- NASF Government Advisory Committee (GAC)
  - This committee oversees coordination of the association's advocacy efforts that affect the finishing industry, including interaction with: Congress, Environmental Protection Agency, Occupational Health and Safety Administration, European Union, and Environmental
- NASF Advocacy Efforts
  - Lobbying and Advice to Regulators
  - Often writing the guidelines for lawmakers.
  - Contact: Jeff Hannapell

# REGION 5 & AESF P2 TECH. "BLUEBOOK" UPDATE



# NMFRRC



NATIONAL METAL FINISHING RESOURCE CENTER

## Pollution Prevention and Control Technologies for Plating Operations

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[by David Marsh](#)

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[Data for End-of-Pipe Equipment](#)

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2nd Edition**

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[http://www.nmfrc.org/  
book/tocmain.htm](http://www.nmfrc.org/book/tocmain.htm)

- AVAILABLE ON NMFRRC WEBSITE.
- LAST UPDATED 2009.
- SECOND HALF OF P2 BENCHMARKING SURVEY
- JOINTLY FUNDED BY REGION 5 GRANT AND AESF.
- FOCUSED IN DETRIOT AREA.

# PRODUCTS FINISHING MAGAZINE

The screenshot shows the homepage of the Products Finishing Magazine website. At the top left, the logo "PRODUCTS FINISHING" is displayed in blue. To the right, there is a search bar with a "Search" button and a "[ Log On ]" link. Below the logo, a navigation menu includes "SUPPLIERS", "PRODUCTS", "EXPERTS", "EVENTS", "PROCESS ZONES", and "RESOURCES". Further right, there are links for "Newsletter", "Subscribe", "Advertise", and "Contact Us".

A central vertical menu lists various finishing processes: Painting, Plating, Powder Coating, Electrocoating, Anodizing, Mass Finishing, Pollution Control, Cleaning/Pretreatment, and Fundamentals. To the left of this menu is a "150 YEARS" anniversary banner for Axalta, featuring a black and white photo of a worker in a lab coat using a spray gun on a car door.

Below the navigation menu, there are several promotional boxes:

- A box celebrating Axalta's 150th anniversary, stating "Celebrates 150 Years in Coatings" and "is developed in Germany in 1866, and since has grown into world's leading manufacturers of liquid and powder coatings." with a "Read This Blog Entry" link.
- A box titled "you like a free digital option?"
- A "NEW PRODUCTS" section for "Kolene's Pyrolysis Ovens Enable Easy Access to Parts".
- A "WAGNER Industrial Solutions" advertisement for "Liquid or Powder" coatings, with the tagline "Either way...".
- A "Fischer" advertisement for "Coating Thickness, Material Analysis, Material Test, Micro Hardness" testing equipment.
- A "BCI SURFACE TECHNOLOGIES" advertisement for "Chromium-Free and Dry-In-Place Technology" with the website "www.bulkchemicals.us" and phone number "800.338.2855".

[www.pfonline.com](http://www.pfonline.com)

- PRODUCTS FINISHING
- Trade magazine for surface finishing
- NASF publishes regular Regulatory Alerts through articles in Products Finishing Magazine

# NASF/AESF NEWS, EDUCATION & TRAINING

[www.nasf.org](http://www.nasf.org)



The screenshot shows the NASF/AESF website interface. At the top left is the NASF logo. Below it is a navigation menu with links: About, Advocacy, News, Events, Education, Chapters, Contribute, Contact, Directory, My Profile. On the left side, there is a vertical sidebar with buttons for Technology, Registration, Log, News, Criteria, and Advisory. The main content area features a large photograph of a man in a light blue shirt speaking at a podium to a large audience seated in a conference room. Below the photo is the heading "AESF Education & Training" and a paragraph of text. To the right of the main photo are three smaller images: a construction crane, a bridge, and a close-up of a metal part.

**AESF Education & Training**

Welcome to the AESF Foundation, a non-profit organization and an entity functioning as the Educational arm of NASF, the National Association for Surface Finishing. We are governed by our Board of Trustees. Our Foundation's three core areas are EDUCATION, RESEARCH and SCHOLARSHIP.

AESF Foundation was formed in 2006 and it aims to support the on-going needs of our members in the surface finishing industry, nationally and globally. Our Educational Programs are well recognized in the industry. They range from regular Class Room courses, to Custom Courses, and our most popular Webinars. We offer certification, starting from the basic level CEF, all the way to MSF (Master Surface Finisher).

AESF Foundation offers Research Grants to universities and technical institutions to support research work in

- **NEWS**
  - NASF publishes regular Regulatory Alerts through NASF bulletins and articles Products Finishing Magazine
- **EDUCATION & TRAINING**
  - SUR/FIN BOOT CAMPS.
  - CEF & CAF Courses Online Person
  - WEBINARS.
- **NASF EDUCATION PAGE:**
  - <http://www.nasf.org/education>

# MSF/AESF EDUCATION & TRAINING

## Environmental Stewardship: Pollution Prevention

chemical make-up and operational procedures for plated alloys such as zinc-nickel, tin-zinc, tin-cobalt,

chemical make-up and operational procedures for plated alloys such as zinc-nickel, tin-zinc, tin-cobalt, phosphorus and nickel-boron plating chemistries. The section is divided into high, medium, and low phosphorus plating solutions, function of and control over each process. Common methods of removal/ recovery for each process. Brief description of poly-alloys and their use.

chemical make-up and operational procedures for plated alloys such as aluminum, magnesium and zinc on aluminum. Also covered are anodic coatings and sealing anodic coatings developed substitutes for chromic acid and thin film sulfuric acid are

function of and control over each process. Common methods of removal/ recovery for each process.

ship:

Students successfully complete given credit towards the MSF certification. While it is not possible to be eligible to sit for the exam you to becoming a Master course covers one of the optional courses to obtain MSF certification.

ned to be beneficial for job shop and captive shops operations such as electroplating can also benefit sales personnel and others.

### Goal:

The goal of this course is to provide the student with a range of information related to methods of preventing pollution by employing good operating practices, recycling or reuse.

### Objective:

At the conclusion of this course, attendees should:

- Have knowledge of the basic understanding of the operating practices employed in metal finishing operations
- Be able to better understand and specify equipment used for pollution prevention and recycle
- Know the basics of ion exchange, electrolytic, evaporative, membrane technologies used for the recycle of processing chemicals
- Be aware of methods for reducing pollution from and stripping processes
- Know the types of recycle/recovery technologies that can be employed in aluminum finishing processes
- Be aware of alternatives that may be employed to eliminate the need for electroplating
- Be prepared to take the examination which is part of the Foundation MSF certification program.

#### 1. Best Operating Practices

This lesson covers the types of operational practices that can have a significant impact on the generation of waste. Topics covered include analytical control solutions, filtration design, anode bagging, drag reduction methods, ventilation designs that minimize energy loss, good rinse designs, how to minimize out in barrel plating and good housekeeping.

#### 2. Pollution Prevention for Acids and Cleaners

This lesson discusses means by which the metal can increase the life of acids and cleaners. Topics include low emission vapor degreasers, extended life of cleaners with lipophilic filtration, use of in-line acids, acid substitution, biological cleaners and operational changes that keep cleaners and acids functioning at peak efficiency.

#### 3. Pollution Prevention and Ion Exchange

This lesson details how ion exchange works and provides guidance as to choice of equipment and resin for each task. Column technology, regeneration issues and operation with various types of resins is covered.

## Environmental Stewardship: Wastewater Treatment



#### 1. Chemistry of Water Part 1

This is a two-part lesson detailing the relationship between chemical principles and water quality. The first part of this lesson will provide a basic background in inorganic chemistry for wastewater treatment operators, including basic chemical reactions of waste treatment. Concepts such as specific gravity, the definition of pH, acids, bases, inorganics and organics are discussed.

#### 2. Chemistry of Water Part 2

The second part of this lesson focuses on the water molecule. Covers are the concepts of solubility, conductivity, pH buffers, water hardness, acid base reactions and stoichiometry.

#### 3. Water Quality

This lesson details water quality issues, focusing on the conditions that affect water quality such as TOC, COD, particulates, heavy metals and non-metallic contaminants. Disinfection using UV is covered in detail along with use of rinsing technologies that reduce water usage, making wastewater treatment systems more effective. Mass and flow balances are also briefly described.

#### 4. Introduction into Wastewater Treatment

This lesson provides information on operations and devices that are crucial to successful wastewater treatment, including pH control, ORP control, mixing, retention times and chemical feed rates. A discussion of regulations and upset response is also provided. Calculation of retention times, use of coagulants/flocculants and flow equalization are also covered.

#### 5. Process Instrumentation

This lesson covers the various instrumentation methods of measurement and control employed in wastewater treatment. pH, ORP, flow rate, and conductivity measurement/control are covered in detail. Also discussed are chemical metering pumps and methods of reagent addition.

#### 6. REDOX Treatments

This lesson provides a detailed guidance for the most common methods of chemically treating wastes that contain cyanide or chromium (+6). Batch and flow through treatments are discussed. Cyanide treatment via alkaline chlorination is a major focus of this lesson, but Ozonation is also covered. Chromium reduction via reaction with a broad range of reagents is another main focus of this lesson.

#### 7. Alternate Treatments

This lesson will provide information of treatment of difficult-to-treat wastewater, such as chelated wastes. Treatments using ferrous sulfide, DTC, starch xanthate, bisulfites and other strong reducers such as borohydride are covered. A special focus is given to treatment schemes for electroless nickel and electroless copper rinses and spent solutions.

#### 8. Suspended Solids Separation

This lesson discusses flocculation, clarification, sludge thickening, and filtration of chemically treated wastewater. Gravity and parallel plate/tube type clarifier design and operational parameters are discussed along with newer technologies such as microfiltration and ion exchange systems. Sludge drying and polishing system employed after clarification are also covered.

<http://www.nasf.org/education>

## • ENVIRONMENTAL COURSES

• POLLUTION PREVENTION

• WASTEWATER TREATMENT

• PERHAPS USE INCUMMULATED WORKER TRAINING?

# NASF COMPLIANCE ASSISTANCE

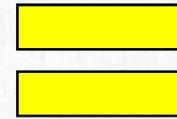
[www.nasf.org](http://www.nasf.org)



The screenshot shows the NASF website interface. At the top left is the NASF logo with the text 'NATIONAL ASSOCIATION OF FINISHING SUPPLIERS'. Below the logo is a red navigation bar with the following links: Home, About, Advocacy, News, Events, Education, Chapters, Contribute, Contact, Directory, My Profile. On the left side, there is a vertical menu with categories like 'Resources', 'Compliance', 'Job Shops', 'Suppliers', and 'Inspection'. The main content area features a large image of two men in a workshop setting. Below the image is the section header 'Law & Regulation' and the article title 'Federal Initiative to Increase Criminal Enforcement of OSHA Activities'. The article is dated 'January 29, 2016' and categorized under 'Law & Regulation'. The text of the article discusses a new initiative by the U.S. Department of Justice (DOJ) and the Department of Labor to increase criminal prosecutions for worker endangerment and worker safety cases. It mentions the Occupational Safety and Health Act of 1970 (OSH Act) and lists three types of conduct impacting worker safety: (1) willfully violating a specific standard, and thus causing the death of an employee; (2) willfully violating a specific standard, and thus causing the death of an employee; (3) willfully violating a specific standard, and thus causing the death of an employee.

- **ASSISTANCE**
  - Liaise between Members and E enforcement.
  - Clarify legal interpretations.
  - Clarify or Oppos overreaching sta laws.

# NEW PARTNERSHIP



NASF INPUT ON ARTICLES

UPDATED TECHNICAL INFORMATION

NMFRC AND EPA TRAININGS.

- NASF PUBLICATIONS ALSO AT NMFRC

- STRONGER EPA/INDUSTRY CONTACTS

# SURFACE TECHNOLOGY ENVIRONMENTAL RESOURCE CENTER

FORMERLY NATIONAL METAL FINISHING RESOURCE CENTER (NAMF) -

[www.nmfrc.org](http://www.nmfrc.org)

Presented in Partnership with:

**SURFACE TECHNOLOGY ENVIRONMENTAL RESOURCE CENTER**

**NASF** **AESF FOUNDATION** **NCMS NATIONAL CENTER FOR MANUFACTURING SCIENCES**



**WELCOME TO THE NEW SURFACE TECHNOLOGY ENVIRONMENTAL RESOURCE CENTER**

The Surface Technology Environmental Resource Center (STERC), previously known as the National Metal Finishing Resource Center (NMFRFC), provides a wealth of useful environmental compliance information to the surface finishing and surface treatment industry. STERC is the result of a new partnership with NCMS, the AESF Foundation and NASF initiated in 2016 and through continued grant funding from EPA.

**From Old to New** - The new name reflects a broader industry technical focus for the Center. Like the old NMFRFC site, STERC will continue to include easy-to-follow regulatory overviews, tips on how to comply, best practice solutions that can help the environment while saving companies money, and links to other useful resources.

**A Fresh Look and Expanded Features** - But now STERC offers even more. A fresh new look with expanded menu options, an expanded library (with free access to NASF members), an expanded "Ask the Experts" section, combined training and education

- COMPLIANCE ASSISTANCE
- REGULATIONS
- NEWS
- TOOLS & CALCULATORS
- TRAINING & EDUCATION
- ASK THE EXPERTS
- LITERATURE
- MEMBERSHIP
- CONTACT

- FOUNDED BY FEDERAL EPA AND U.S. DEPT. OF COMMERCE
- SEARCHABLE TECHNICAL DATABASE COVERING METAL FINISHING PROCESS AND POLLUTION CONTROL (NAMF MEMBERS).
- FULL TEXT REGULATIONS, BREAKING DIRECTIVES, AND INTERPRETATIONS FROM FEDERAL AND STATES.
- SPECIFICATIONS (WITH INTERPRETATIONS) USED IN METAL FINISHING.
- ACCESS TO INFORMATION FROM INDUSTRY EXPERTS.

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**Platers Calculators**

- Chromium Plating Emissions Calculator.** This calculator, developed by the Illinois Environmental Protection Agency, is designed to estimate emissions from chromium plating and anodizing operations. Simply enter production information and press "Calculate Emissions."
- Evaporation Calculator.** Use this tool to determine the rate of evaporation from plating tanks.

[www.nmfrc.org](http://www.nmfrc.org)

[www.sterc.org](http://www.sterc.org)

- COMPLIANCE ASSISTANCE
- INFORMATIONAL ARTICLES
- AIR
- SOLID/HAZARDOUS WASTE
- WATER/WASTE WATER
- HEALTH & SAFETY
- CHEMICALS & TOXICS
- OTHER
- PLATING CALCULATORS

# SURFACE TECHNOLOGY ENVIRONMENTAL RESOURCE CENTER

FORMERLY NATIONAL METAL FINISHING RESOURCE CENTER (NAMF) -

[www.nmfrc.org](http://www.nmfrc.org)

[www.sterc.org](http://www.sterc.org)

**AIR POLLUTION STATE RESOURCE LOCATOR**

Florida

Agency: Department of Environmental Protection, Division of Air Resources Management

Regulations Online: [General](#) | [Air](#) | [Water](#) | [Solid/Hazardous Waste](#)

Air Agency: [Division of Air Resources Management](#)

Water Agency: [Water Resource Protection Programs](#)

Hazardous Waste Agency: [Department of Waste Management](#)

Other Resources: [News and Press Releases](#)

[Feedback Form](#)

**SURFACE TECHNOLOGY ENVIRONMENTAL RESOURCE CENTER**

Presented in Partnership with: NASF, AESF

HOME

COMPLIANCE ASSISTANCE

- Air
- Solid/Hazardous Waste
- Water/Wastewater
- Health & Safety
- Chemicals/Toxics
- Pollution Prevention

REGULATIONS

NASF NEWS

TOOLS & CALCULATORS

TRAINING & EDUCATION

LIBRARY/ARTICLES

ASK THE EXPERTS

DIRECTORIES

NASF MEMBERSHIP

CONTACT

**Plain Language Guide to Regulations**

**Air Emissions**

- How to Comply
- Clean Air Act
- Chromium NESHAP—Hard Chrome
- Chromium NESHAP—Decorative Chrome and Anodizing
- Plating and Polishing NESHAP
- Types of Air Pollution Permits

**STATE REGULATIONS RESOURCE LOCATOR**

Florida

Environmental Enforcement Agency: [Department of Environmental Protection](#)

Regulations Online: [General](#) | [Air](#) | [Water](#) | [Solid/Hazardous Waste](#)

Air Agency: [Division of Air Resources Management](#)

Water Agency: [Water Resource Protection Programs](#)

Hazardous Waste Agency: [Department of Waste Management](#)

Other Resources: [News and Press Releases](#)

[Feedback Form](#)

**STATE REGULATIONS RESOURCE LOCATOR**

State Regulations Locator (SRT). With this tool you can

- Find state environmental regulations.
- Link to state agencies and contacts.
- Read state news and press releases.
- Locate practical resources for your industry sector. Also check the [Sector-Specific Resources Tool](#).

Select a state: AL | GOI

Click on a state's initials:

- COMPLIANCE ASSISTANCE
- INFORMATIONAL AIR POLLUTION
- AIR EMISSIONS
- SOLID/HAZARDOUS WASTE
- WATER/WASTE WATER
- HEALTH & SAFETY
- CHEMICALS & TOXICS
- OTHER

# ROAD MAP



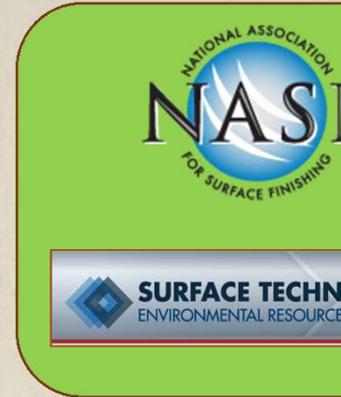
PRESIDENT



EPA



STATES



NASF & ST

# **BIG PICTURE**

**REDUCED REGULATION IS NOT THE SAME AS  
NO REGULATION.**

**DATA NOT YET CLEAR ON EFFECTS OF  
DEREGULATION.**

**YOU HAVE RESOURCES AVAILABLE TO HELP.**

**THIS IS NOT LEGAL ADVICE:  
CONSULT YOUR ATTORNEY FOR DETAILS ON ANYTHING IN THIS PRESENTATION.**



# CORROTEC INCORPORATED SPRINGFIELD, OHIO

Serving the Surface Finishing Industry



THANK YOU

# **REGULATORY UPDATE: ISSUES FACING FLORIDA SURFACE FINISHERS**

**AND RESOURCES AVAILABLE FOR COMPLIANCE**

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