# Dental Amalgam Rule

Al Garcia

Region 8 Pretreatment Workshop May 8, 2018

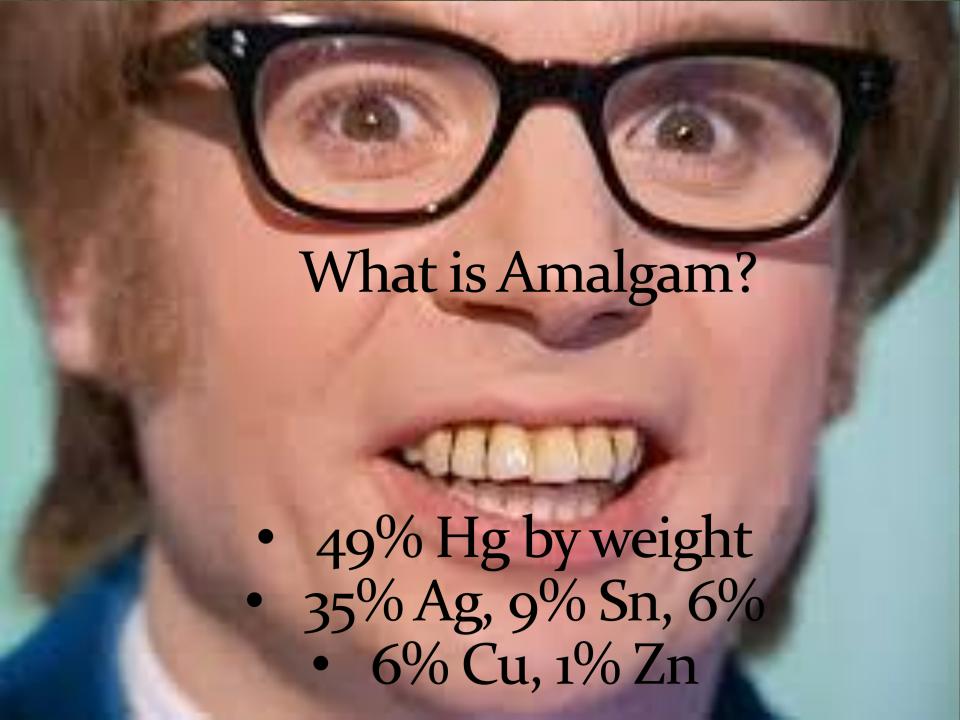
# Dental Amalgam

- Published on June 14, 2017
  - ...with correction June 26, 2017
  - ...and corrections, \*sigh\* July 5, 2017.
- 40 CFR Part 441
- Effective Date July 14, 2017

https://www.epa.gov/eg/dental-effluentguidelines

# Dental Amalgam

- New Source Date July 14, 2017
- Applicability
- Provisions:
  - Installation of an ISO 11143-compliant Amalgam Separator (or equivalent device)
- Compliance with 2 BMPs
  - Line cleaners
  - Waste amalgam must be treated



# Applicability

 Dental Facilities, including institutions, temporary offices, clinics, home offices and dental facilities owned by Federal, State or Local governments.

# Exemptions

- Oral pathology/radiology/surgery, orthodontics, periodontics, prosthodontics
- Mobile Units
- Dental dischargers that do not discharge amalgam process wastewater to the POTW
- Dentists that transfer waste to a CWT facility

# Exemptions (cont)

- Do not place or remove amalgam, except in limited emergency or unplanned, unanticipated circumstances, and
- Certify to the control authority to the effect that they do not and will not use or remove amalgam

# Applicability

 Unless otherwise designated by the Control Authority, dental dischargers subject to this part are not Significant Industrial Users as defined in 40 CFR part 403, and are not "Categorical Industrial Users" or 'industrial users subject to categorical pretreatment standards" as those terms and variations are used in 40 CFR part 403, as a result of applicability of this rule.

#### Best Management Practices

- Successful Sector Control Programs-based on BMPs:
  - Requirement to install Treatment Technology
  - Requirement for Adequate Sizing
  - Requirement to Operate and Maintain Treatment
  - Requirement to Maintain Records

# Incorporation of BMPs Installation of an adequately sized amalgam separator

- Meets ISO 11143 certification standards
- Removal efficiency of at least 95%
- What is an amalgam separator?
  - Solids collector
  - Capture Hg by default
  - Avg Annual Costs -\$800.00

Installation of an adequately sized amalgam separator

- What is an amalgam separator?
  - Solids collector
  - Capture Hg by default
  - Avg Annual Costs -\$800.00

#### Operation and Maintenance

- Inspected in accordance with manufacturers operating manual
- Must be repaired within 10 business days, if discovered to be not functional
- Maintained by replacing the cartridge, canister or unit collector of retained solids when the design capacity is reached.

#### Housekeeping BMPs

- Prohibition of oxidizing line cleaners, including but not limited to bleach, chlorine, iodine or peroxide that have a pH lower than 6 or greater than 8.
- Ensure all amalgam process wastewater, including chair side traps, screens, vacuum pump filters, dental tools, cuspidors, or collection devices are treated through the amalgam separator.

#### Recordkeeping

- Maintain for three years:
- Inspection records/logs
- Maintenance of Separator
- Manifest/shipping records of cartridge replacement
- Documentation of repairs or replacement

# Existing vs. New Source

- Existing Source:
  - Compliance with Rule by July 14, 2020
  - Provide a one-time compliance report-October 12, 2020
- New Source
  - Compliance with Rule upon startup
  - Provide a one-time compliance report within 90 days

# **Existing Source**

- Grandfather Clause:
  - Separators installed prior to June 14, 2017 (publication date in FR)
  - Separator meets requirements until it is replaced or for 10 years (June 14, 2027)...whichever is sooner....and
  - If they continue to meet the requirements in the Rule

# Dental Amalgam

- One time Compliance Report
  - Contact information
  - Characterize Dental office
  - Amalgam Separator information
  - O + M certifications
  - BMP certifications

https://www.epa.gov/eg/dental-effluent-guidelines

# Pretreatment Implementation

- Legal authority
- Procedures
- Funding/Resources
- Local Limits
- Enforcement Response Plan
- IU inventory

# Pretreatment Implementation IU inventory

 You need to identify the universe of dental dischargers in your service area.

# EPA Region 8

- Coordinated with State ADA offices
- Provided the EPA Region 8 One-time Compliance report
- Received about 25 reports from Dentists in non-approved program
- Phase II
  - IU inventory in 2019
  - Gather list of dentist offices

# Questions from Dental Offices

Every report but 1 is incomplete; Outreach to every dental office to ensure interpretation of compliance

- Do I have to complete the report?
   (Orthodontists, oral surgeon, etc.)
- If more than one dentist in the practice do we each have to complete the form?
- What about multiple practices in one building?

#### **EPA Contact Info**

Al Garcia

EPA Region 8 Pretreatment Coordinator 303.312.6382 garcia.al@epa.gov