

# **Working Group Meeting #1**

April 8, 2026, 9:00 AM



# **PROPOSED AMENDED RULE 1460 – CONTROL OF PARTICULATE EMISSIONS FROM METAL RECYCLING AND SHREDDING OPERATIONS**

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**Join Zoom Meeting**

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# Meeting Information

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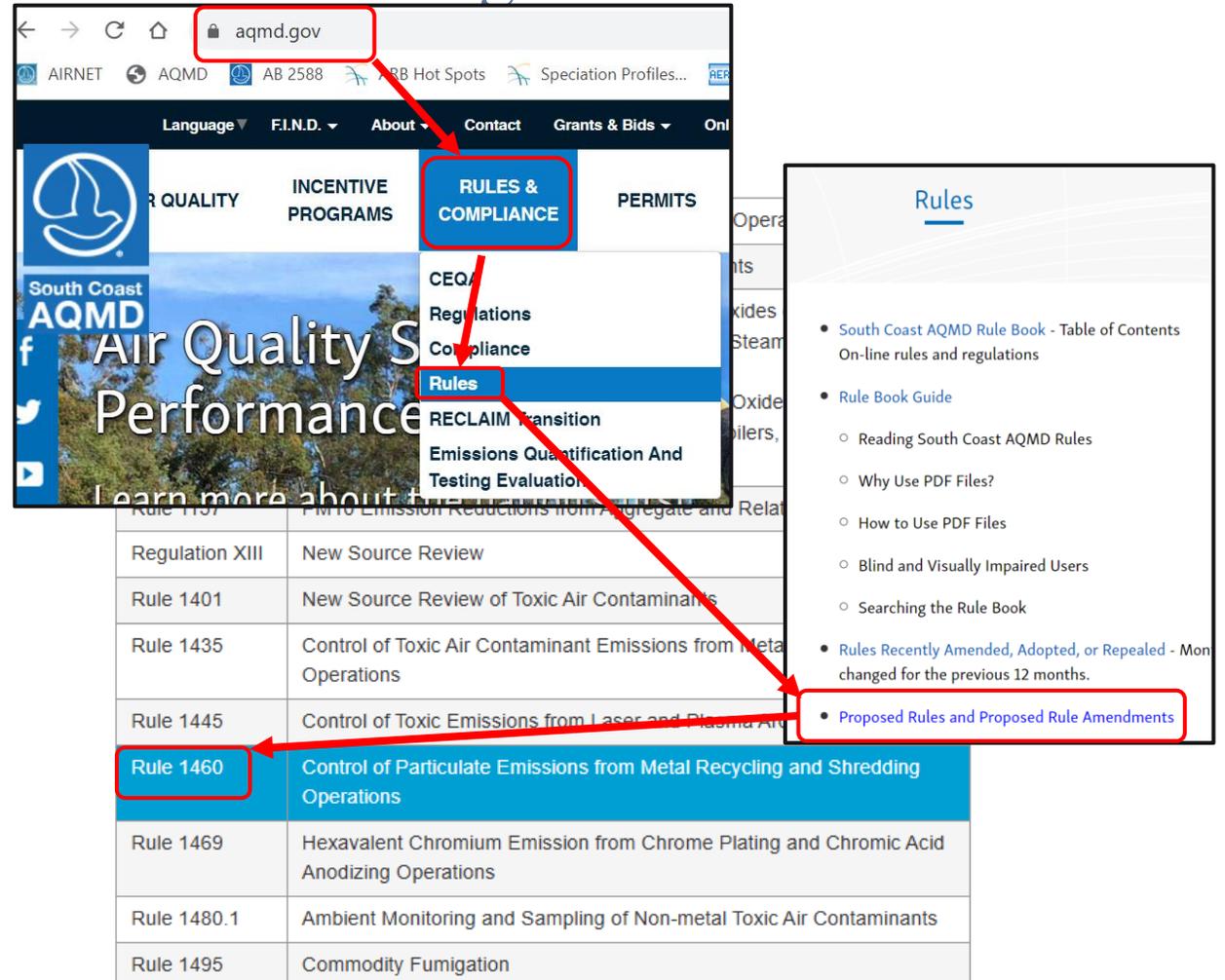


OR



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AIRNET AQMD AB 2588 RB Hot Spots Speciation Profiles...

QUALITY INCENTIVE PROGRAMS RULES & COMPLIANCE PERMITS

South Coast AQMD

Air Quality Standards Performance

Learn more about the...

Regulation XIII New Source Review

Rule 1401 New Source Review of Toxic Air Contaminants

Rule 1435 Control of Toxic Air Contaminant Emissions from Metal Operations

Rule 1445 Control of Toxic Emissions from Laser and Plasma Ar...

Rule 1460 Control of Particulate Emissions from Metal Recycling and Shredding Operations

Rule 1469 Hexavalent Chromium Emission from Chrome Plating and Chromic Acid Anodizing Operations

Rule 1480.1 Ambient Monitoring and Sampling of Non-metal Toxic Air Contaminants

Rule 1495 Commodity Fumigation

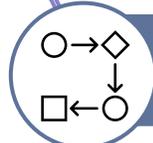
Rules

- South Coast AQMD Rule Book - Table of Contents  
On-line rules and regulations
- Rule Book Guide
  - Reading South Coast AQMD Rules
  - Why Use PDF Files?
  - How to Use PDF Files
  - Blind and Visually Impaired Users
  - Searching the Rule Book
- Rules Recently Amended, Adopted, or Repealed - Mon  
changed for the previous 12 months.
- Proposed Rules and Proposed Rule Amendments

# Agenda



Introduction



Rule Development Process



Metal Recycling Operations



Regulatory Background



Air Quality Issues from Shredding Operations



Information Gathering and Next Steps

# INTRODUCTION

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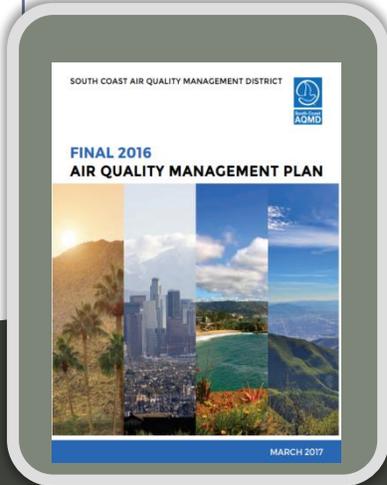
# South Coast AQMD



- Local air pollution control agency
  - Largest of the 35 local air agencies in CA and in the U.S.
  - 10,743 square miles
  - 17 million residents
- Responsibilities
  - Regulate air emissions from stationary sources
  - Permit ~75,000 sources at ~25,000 facilities
  - Develop and implement plans to meet State and Federal air quality standards
  - Administer over \$100 million of incentive funding annually

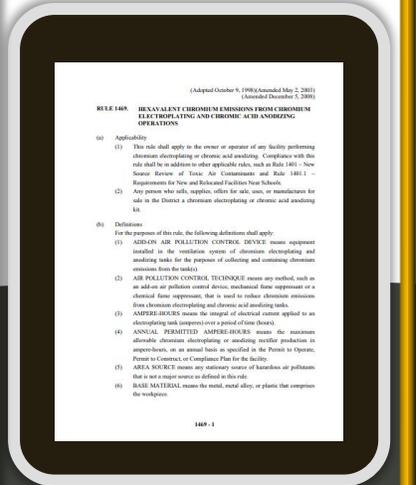


# Key South Coast AQMD Activities



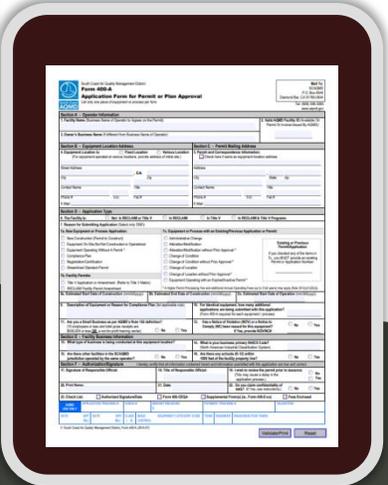
## Air Quality Management Plans

Blueprint to comply with clean air standards



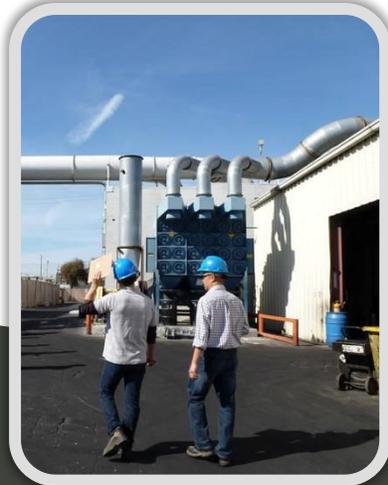
## Rules and Regulations

Reducing emissions from facilities or equipment



## Permits to Operate

Issuance of Permits to limit the amount of emissions per equipment/facility



## Compliance Inspections

Periodic inspections to enforce rules and permits



## Complaint Investigations

Responses to air quality concerns received from the public



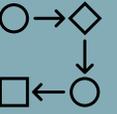
## Ambient Air Monitoring

Quantification of air quality including special studies

# **RULE DEVELOPMENT PROCESS**

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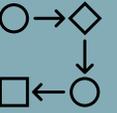
# Overview of Rule Development Process



*Working Group and stakeholder meetings continue throughout process*



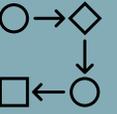
# Working Group Meetings



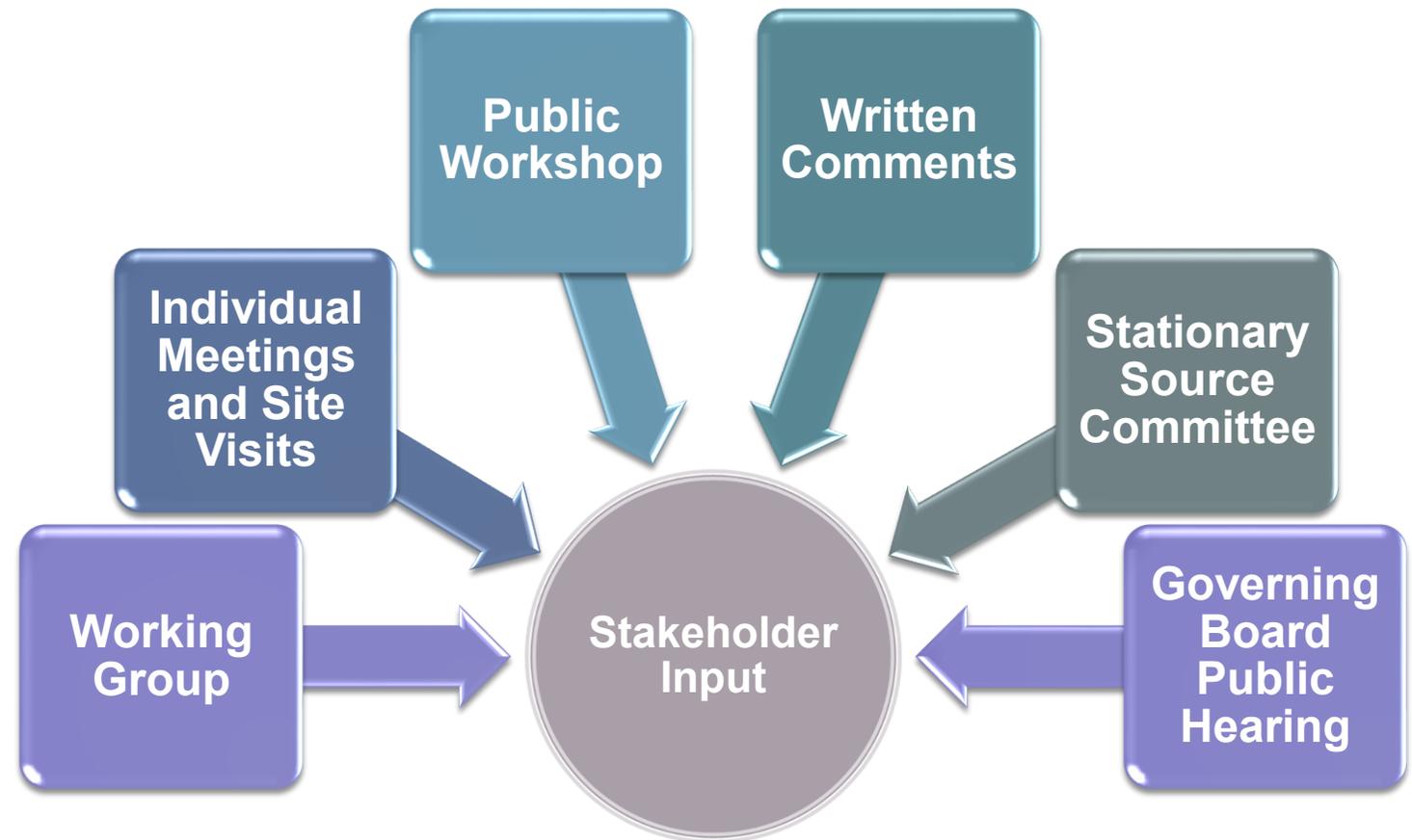
- Working Group Meetings are a key component of the rule development process
- Comprised of representatives from industry, equipment suppliers, community and environmental groups, other agencies, and other interested parties
- Working Group Meetings are generally held monthly and throughout the rule development process
  - Email notices are sent out before each Working Group Meeting
- Objectives of Working Group Meetings:
  - Build consensus and work through issues
  - Exchange information and understanding of key issues
  - Collaborate and create a dialogue with stakeholders



# Stakeholder Input



- Stakeholders can provide input throughout the rulemaking process
- Early input is strongly encouraged
  - Provides staff the opportunity to try to resolve issues
- Variety of ways for stakeholders to provide input



# METAL RECYCLING OPERATIONS

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# Metal Recycling Operations



- Metal recycling facilities receive metals to be recycled from various sources including the public, industry, and other private clients
- Metal recycling facilities can conduct the following operations:
  - Separate and sort the metal
  - Shred or cut down metal pieces into smaller pieces
  - Load material into bins and containers for transport off-site
- Recycled metals:
  - Recovered and reused for new products
  - Diverted from landfills



# Types of Metals Processed at Facilities



Facilities receive and process ferrous and non-ferrous metals

## Ferrous Metals

- Metals that contain iron
  - Highly durable
  - Many are magnetic
- Common ferrous metals include:



Steel



Cast Iron



Wrought  
Iron



## Non-ferrous Metals

- Metals that do not contain iron
  - More malleable than ferrous metals
  - More resistant to rusting
- Common non-ferrous metals include:



Aluminum



Copper



Lead



Tin

# Metal Recycling Operations – Facility Categories



- Some metal recycling facilities conduct metal shredding operations

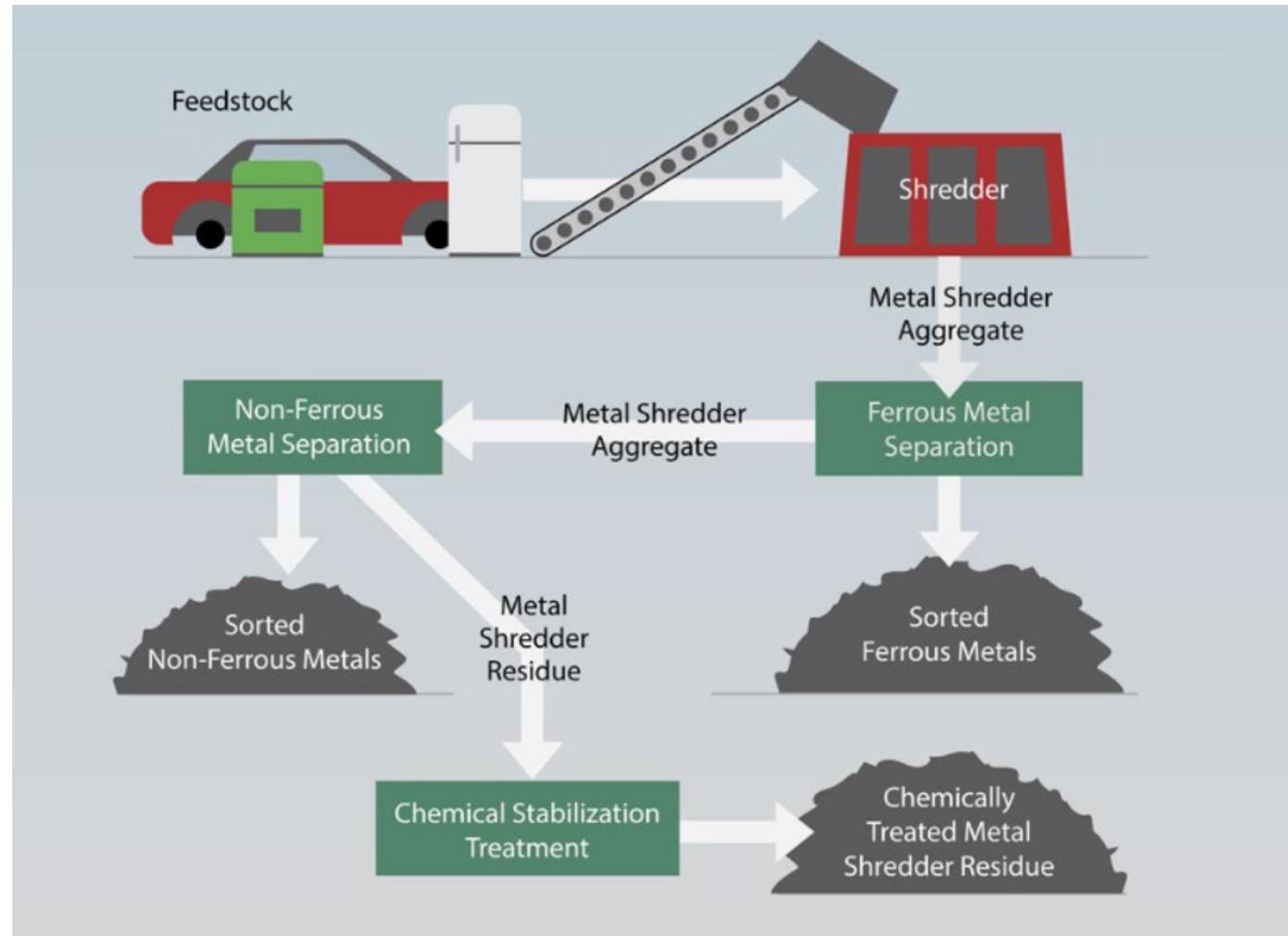
## Non-Metal Shredding Facility

- No metal shredding operations on-site
- Metals collected, sorted, and packaged on-site and then transported off-site for further processing
- South Coast AQMD
  - Permits not required at most metal recycling facilities
  - Registration required for facility

## Metal Shredding Facility

- On-site metal shredding operations
- May also collect, sort, and package metals on-site and then transported off-site for further processing
- South Coast AQMD
  - Permits required for metal shredder and pollution control equipment
  - Subject to additional requirements
  - Registration required for facility

# Overview of Metal Shredding Operations



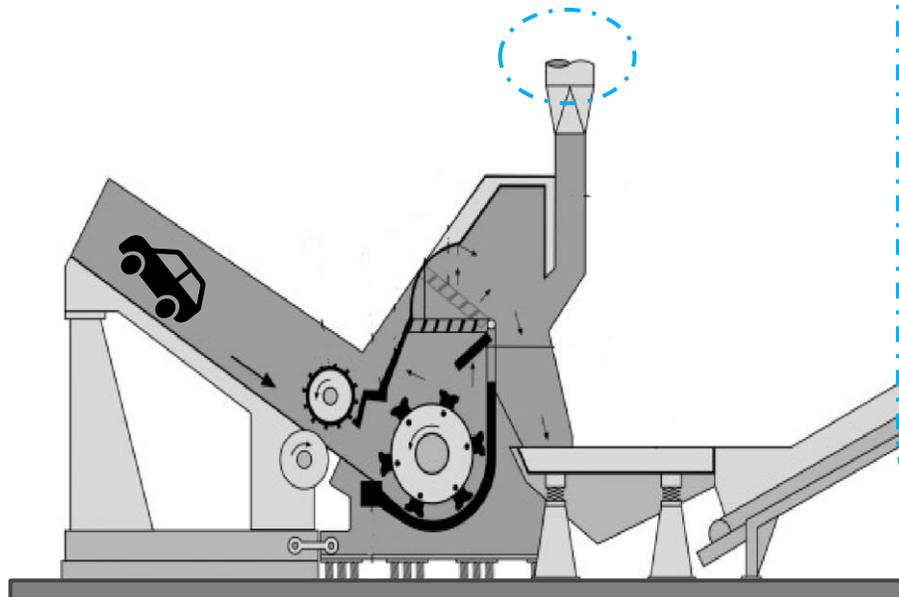
# Emissions Sources from Facility Operations



Metal shredding operations have two potential categories of emissions that are regulated by the South Coast AQMD

## Point Sources

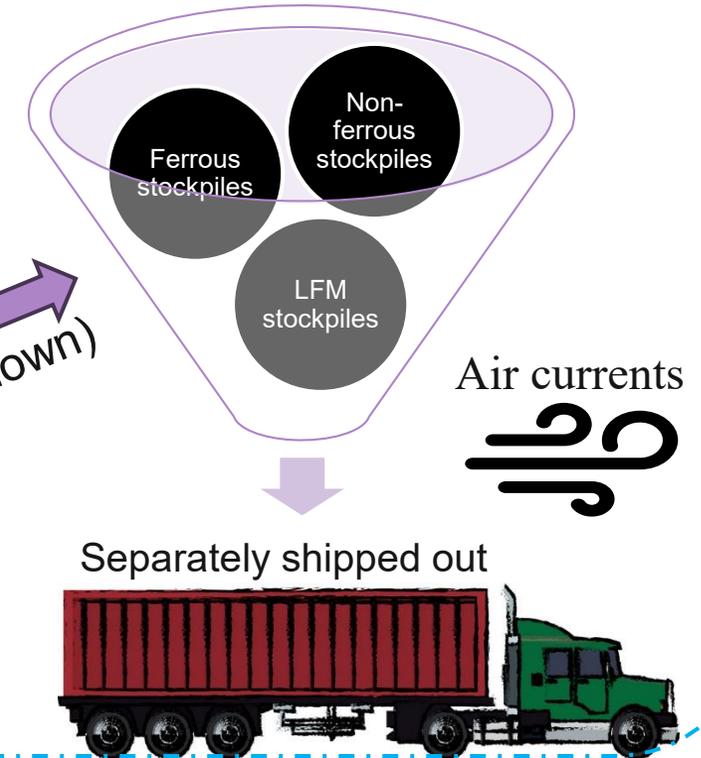
Emissions originate from a fixed point such as the stack of shredder's control device(s)



## Fugitive Emission Sources

Facility generated emissions that can become airborne, excluding emissions from control device(s)

Separation and sorting (not shown)



# Point Source – Metal Shredders



- Metal shredders and their controls are subject to South Coast AQMD permitting process
  - Evaluated for compliance with regulatory requirements (e.g., Rule 1460)
  - Requirements to ensure basic and control equipment are operated as designed
- Permit conditions include
  - Materials must be handled in a manner that minimizes dust and smoke emissions
  - Cannot operate unless vented to control equipment with South Coast AQMD permits



# Fugitive Source Emissions



Material  
Handling



Metal  
Processing



Storage

- Existing South Coast AQMD rules require best management practices and routine housekeeping to minimize fugitive particulate emissions

# REGULATORY BACKGROUND

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# Key State and Local Regulations



- Certified Unified Program Agencies (CUPA; e.g., fire departments)
- Department of Toxic Substances Control (DTSC)
- Local Air Pollution Control Districts:

## **South Coast AQMD Rule 1460\*** *Control of Particulate Emissions from Metal Recycling and Shredding Operations*

- Adopted November 2022
- Focused on housekeeping and best management practices

(Adopted November 4, 2022)

**RULE 1460 CONTROL OF PARTICULATE EMISSIONS FROM METAL RECYCLING AND SHREDDING OPERATIONS**

(a) Purpose  
The purpose of this rule is to minimize Fugitive Dust from Metal Recycling Facilities and Metal Shredding Facilities.

(b) Applicability  
This rule shall apply to an owner or operator of a Metal Recycling Facility or Metal Shredding Facility.

(c) Definitions

- (1) BUILDING ENCLOSURE means a permanent building or physical structure, or a portion of a building, with a floor, walls, and a roof to prevent exposure to the elements, (e.g., precipitation, wind, run-off), with limited enclosure openings where openings are only to allow access for people, vehicles, equipment, Scrap Metal, or Metal Shredder Residue.
- (2) DEBRIS means soil, dirt, sand, gravel, clay, and other organic or inorganic particulate matter.
- (3) EXISTING METAL RECYCLING FACILITY means a Metal Recycling Facility in operation before November 4, 2022.
- (4) EXISTING METAL SHREDDING FACILITY means a Metal Shredding Facility in operation before November 4, 2022.
- (5) FERROUS METAL means any iron or steel scrap that has an iron content sufficient for magnetic separation.
- (6) FUGITIVE DUST means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of any person.
- (7) HIGH VALUE GRADE METAL means Scrap Metal, intended for processing or resale, that contains minimal Debris, is not stored on unpaved surfaces, and is not mixed with material that contains Debris.
- (8) METAL RECYCLING FACILITY means any facility used for the receipt, storage, segregation, or separation of Scrap Metal and mixed materials for reuse or resale, whose primary business is the purchasing; processing by shearing, baling, sorting, or torching; trading, or receiving secondhand or

1460 - 1

\* [https://www.aqmd.gov/docs/default-source/rule-book/reg-xiv/r1460.pdf?sfvrsn=4a02be61\\_8](https://www.aqmd.gov/docs/default-source/rule-book/reg-xiv/r1460.pdf?sfvrsn=4a02be61_8)

# Rule 1460 – Key Requirements to Prevent Fugitive Emissions



## Housekeeping Requirements

Prescribed cleaning at traffic & operational areas

Housekeeping waste stored in covered containers

## Best Management Practices

Apply water to minimize emissions

Cease material handling or metal processing at facilities near a sensitive receptor during high winds

Signage limiting vehicle speeds to 15 mph

Prevent track-out at facility exits

Implement control measures to minimize emissions from storage piles

Utilize building enclosure if multiple violations for improper storage of metal shredder residue



## Rule 203 – Permit to Operate

Metal shredding equipment and associated controls require permits with conditions such as:

- Maintain equipment in good operating condition*
- Vent emissions to air pollution control equipment*
- Supply at least a minimum specified gallons per minute of water to the shredder*
- Maintain a minimum specified temperature within the air pollution control equipment*

## Rule 403 – Fugitive Dust

- No fugitive dust that remains visible beyond the property line
- No track-out extending 25 feet or more in cumulative length from facility
- Remove track-out at conclusion of workday or evening shift

**AIR QUALITY ISSUES  
FROM SHREDDING  
OPERATIONS**

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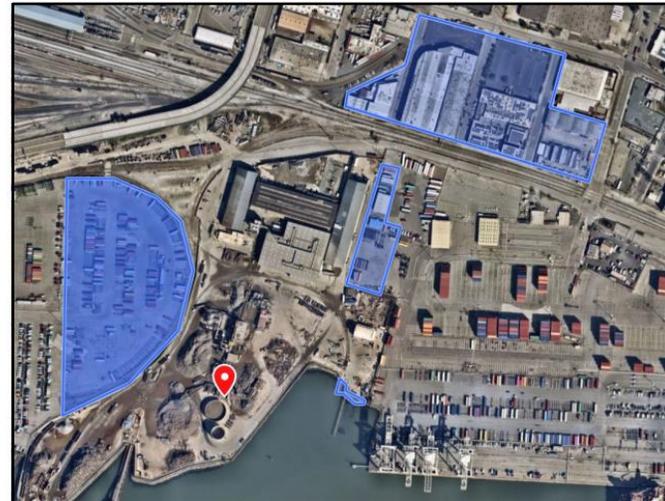
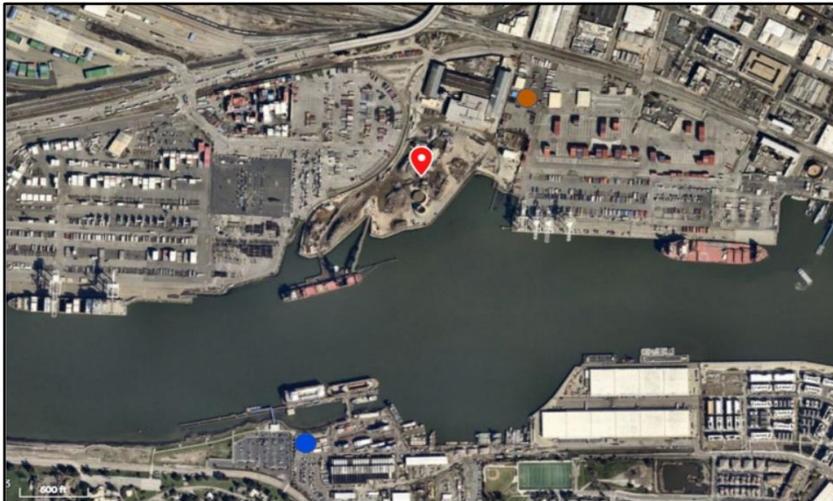
**ASSEMBLY BILL 2851  
(2024)**

# Metal Shredding – DTSC Investigation



- In 2012, DTSC participated in an investigation of a 33-acre metal shredding facility in Oakland CA due to alleged releases of light fibrous material (LFM) from facility\*
- Due to concerns of ongoing releases, DTSC participated in investigations of this facility
  - DTSC set up two monitors near the facility (see below left for location of monitors)
  - DTSC collected LFM samples from areas surrounding the facility (see below center for areas in blue)

Example photos of LFM at XPO Logistics on April 13, 2021 (left) and June 23, 2021 (right).



- East Monitor (with meteorology)
- Southwest Monitor
- 📍 Red marker indicates location of the Facility

📍 Red marker indicates location of the Facility, and the blue areas indicate areas where LFM samples were collected.

\* <https://dtsc.ca.gov/hw-projects/schnitzer-steel-industries-inc/>

# Oakland – Air Quality Issues Identified



From 2020 to 2022, DTSC conducted air monitoring\* with the following results:

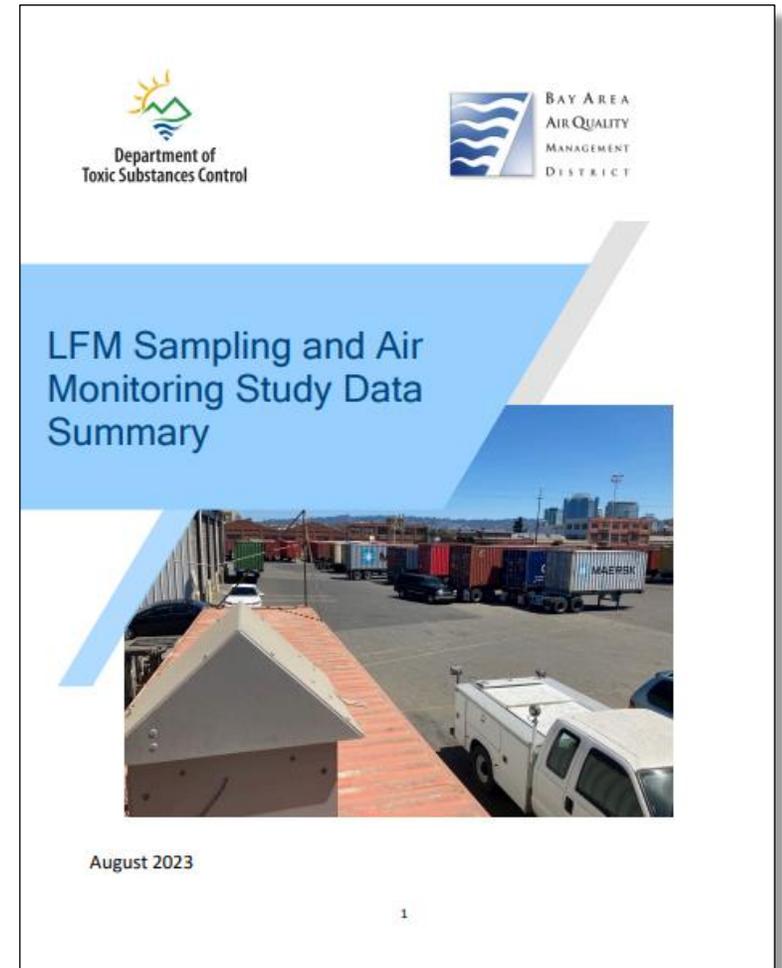
- Air monitoring data showed multiple occurrences of relatively high levels of certain metals, including nickel and lead, downwind of the facility
- Samples of LFM collected near the facility contained the same metals consistent with elevated levels of metals from air monitoring data

This investigation was one of the drivers for Assembly Bill 2851\*\* that aimed to:

- Require fence-line air quality monitoring of metal shredding facilities
- Notify the nearby community of harmful releases from metal shredding facilities

\* <https://dtsc.ca.gov/wp-content/uploads/sites/31/2023/08/LFM-Final-Study-Report.pdf>

\*\* [https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=202320240AB2851](https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=202320240AB2851)



# Recent Legislation – AB 2851



- In 2024, Assembly Bill 2851 (AB 2851) was signed into law requiring:
  - Agencies to develop fence-line monitoring requirements for metal shredding facilities
  - Metal shredding facilities, as defined in Health and Safety Code Section 25150.82, to comply with fence-line monitoring requirements
    - *"metal shredding facility" means an operation that uses a shredding technique to process end-of-life vehicles, appliances, and other forms of scrap metal...*
- By 2027, South Coast AQMD is mandated to develop requirements, in consultation with DTSC and OEHHA, for fence-line monitoring at metal shredding facilities that include:
  - Fence-line monitoring of metals
  - Threshold levels for public notification and enforceable actions
  - Enforceable actions
  - Public notification
  - Reporting



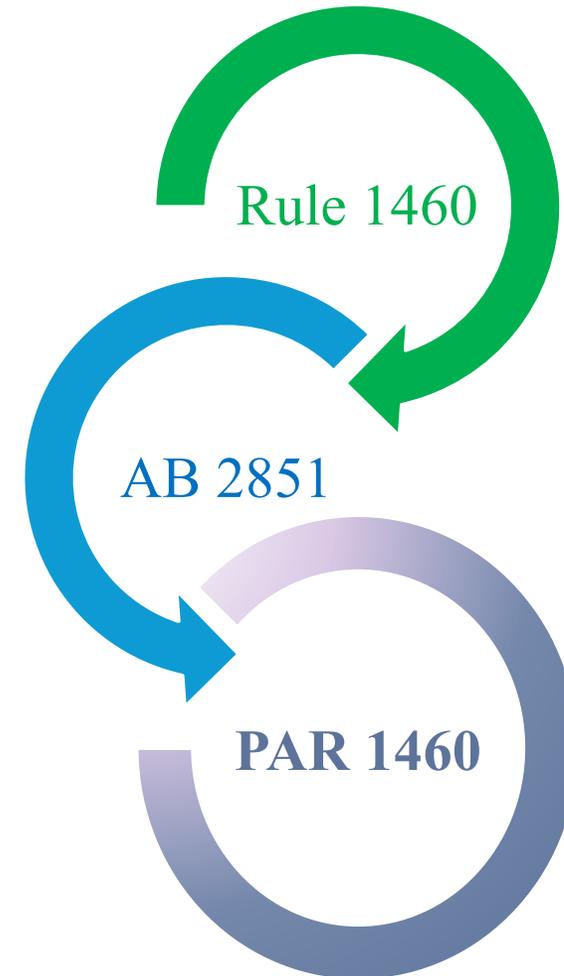
# PAR 1460 – Applicability and Universe

- AB 2851 will require facilities that shred automobiles and appliances to conduct facility-wide fence-line air quality monitoring for metals
- Based on staff evaluations three metal shredding facilities, as defined by AB 2851, would be subject to fence-line monitoring of metals
  - SA Recycling – Anaheim
  - SA Recycling – Terminal Island
  - Ecology Recycling/AIM – Colton



# Need to Amend Rule 1460

- AB 2851 has mandated South Coast AQMD to develop, implement, and enforce fence-line monitoring requirements at metal shredding facilities by 2027
- Rule 1460 rulemaking needed to incorporate the requirements specified in AB 2851
- Facilities not proposed to be subject to fence-line monitor of metals
  - Non-metal shredding facilities
  - Metal shredding facilities not shredding automobiles and appliances



# **INFORMATION GATHERING**

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## **NEXT STEPS**

# Information Gathering



Research metal shredding facilities, their operations, and ambient air monitoring

- Reviewing South Coast AQMD permits and their conditions
- Contacting industry associations
  - California Metals Coalition (CMC)
  - Recycled Materials Association (ReMA)
- Reviewing current technology used for ambient air monitoring of metals
- Collaborating with other regulatory agencies to implement AB 2851 mandates
- Conducting site visits at metal shredding facilities



# Next Steps



Continue consultations with other regulatory agencies to develop fence-line monitoring requirements

Consult with OEHHA to develop thresholds for metals

Develop fence-line monitoring concepts for PAR 1460

Next Working Group meeting to discuss rule concepts

# Staying Updated



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<input type="checkbox"/> Rule 1426	Emissions from Metal Finishing Operations
<input type="checkbox"/> Rule 1435	Control of Emissions from Metal Heat Treating Processes
<input checked="" type="checkbox"/> Rule 1460	Control of Particulate Emissions from Metal Recycling and Shredding Operations
<input type="checkbox"/> Rule 1466	Toxic Air Contaminant Emissions from Decontamination of Soil
<input type="checkbox"/> Rule 1469	Hexavalent Chromium Emission from Chrome Plating and Chromic Acid Anodizing Operations

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