



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

AGENDA: 5

## Stationary Source Committee Meeting

# Metal Melting & Processing

**Victor Douglas**  
**Principal Air Quality Specialist**  
**April 12, 2010**

## Metal Melting & Processing

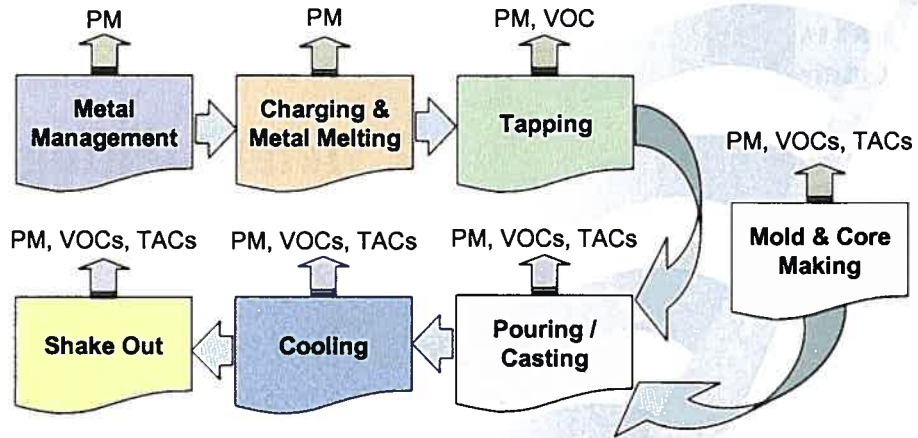
- Foundries, Forges, Scrap / Recycling
- Furnaces / Ovens
- 25-30 Facilities in District
  - 16 in CARE areas
- Emissions:
  - Odorous compounds
  - Toxic compounds
  - Particulate matter
- Complaints



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# Primary Processes



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# Primary Processes

## Metal / Scrap Management

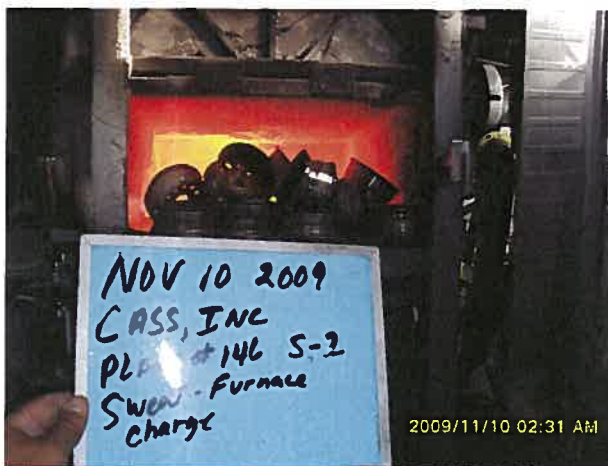


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# Primary Processes

## Charging



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# Primary Processes

## Tapping



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# Primary Processes

## Casting: Pouring

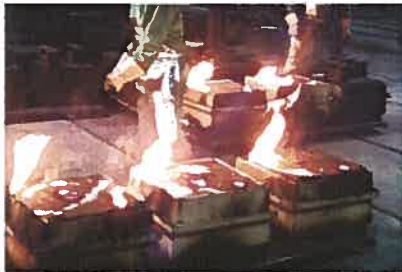


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# Primary Processes

## Casting: Cooling



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## Primary Processes

### Grinding / Finishing



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## Current Air Rules & Regs

- Federal Rules for Toxics
  - Major Source Iron and Steel Foundries
  - Secondary Aluminum Production
  - Electric Arc Furnace Steelmaking Facilities
  - Area Source Iron and Steel Foundries
  - Aluminum, Copper, and Other Nonferrous Foundries
- State Regulation: Non-Ferrous Metal Melting ATCM
- District Rules
  - Permits
  - Particulate Matter
  - Odorous Substances



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## Focus of Review Efforts

- **Emissions**
  - Odorous Compounds
  - Toxic Compounds
  - Particulate Matter
- **Mitigation Options**
  - Best Practices
  - New Technologies
  - Capture & Control
  - Monitoring



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## Review Process

### Site Visits

- |                       |                    |
|-----------------------|--------------------|
| – PSC (3)             | – CASS (3)         |
| – ABI (2)             | – US Pipe (1)      |
| – A&B Die Casting (1) | – USS / POSCO (1)  |
| – Schnitzer Steel (1) | – Snell Metals (1) |

### Technical Research

- |                       |                     |
|-----------------------|---------------------|
| – District Records    | – Industry Experts  |
| – Literature Searches | – Other Regulations |



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## Outreach to Stakeholders

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### Meetings

- Community Groups
- Industry Representatives
- Concerned Public Officials



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## Next Steps

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- Regulatory Concepts
- Consultation with Stakeholders (Ongoing)
- Draft Rule
- Workshop (Summer)
- Socioeconomic and Environmental Analyses
- Final Proposal
- Public Hearing (Fall)



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