



## Emission Reduction Efforts



## Our Efforts

- We take our responsibility seriously
- We have been and are working collaboratively with AQMD
- We have been and are implementing measures to control emissions



# Type of Operation



## Previous Steps Completed to Reduce Lead Emissions

Secondary HEPA Filters  
Completed in 2011



## Previous Steps Completed to Reduce Lead Emissions

Baghouse Enclosure – Completed April 2012

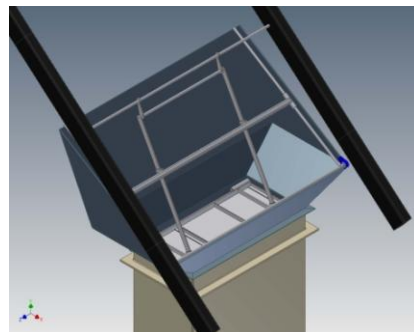


**EXIDE**  
TECHNOLOGIES

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## HRA Timeline and Response

- January 2013
  - HRA Submitted
- March 2013
  - HRA Approved
  - Proposal for Solution
    - Permits to install expedited
- April – Door Installed
- May – Preliminary Test Results Complete

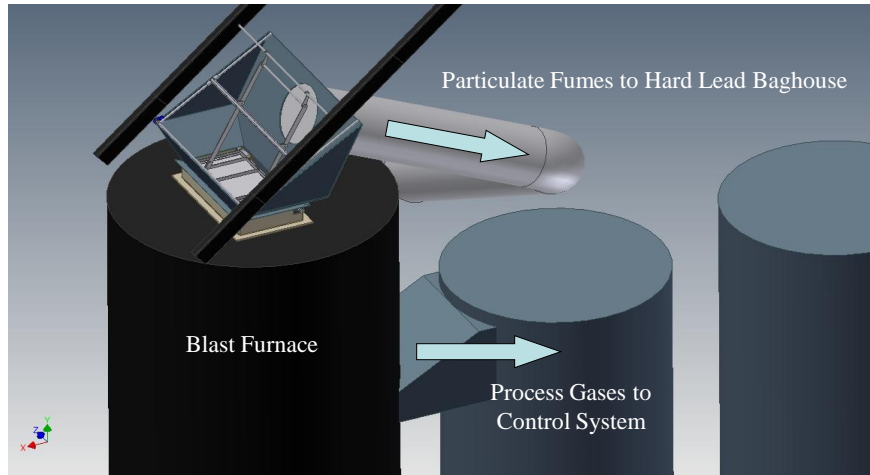


**EXIDE**  
TECHNOLOGIES

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# Steps Taken to Reduce Emissions

## Blast Furnace Modifications



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## Preliminary Door Results

- Testing of Emissions from the Hard Lead Stack conducted over four days in April
- Tests conducted for key compounds driving HRA-calculated risks, including arsenic
- Preliminary tests found isolation door reduced emissions from Hard Lead Stack
- However, these tests must be confirmed by full protocol under typical operation conditions as required by permit

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TECHNOLOGIES

## Future Planned Activities

- Confirm Isolation Door Testing
- Submit Risk Reduction Plan
- Mitigation Plan Steps include:
  - Add secondary HEPA filtration to Material Handling baghouse in 2013.
  - Modify existing HEPA filtration unit on battery breaker Demister/Scrubber in 2013 to improve effectiveness.