



# Cement MACT Hot Topic Hour

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# Monitoring – CEMS

- An overview of the monitoring requirements for the NESHAP rules for the Portland Cement Manufacturing Industry

# Cement Applications

- Estimated Promulgation Date: June 2010
  - HCl, Mercury, VOC, and PM are included for reduction and monitoring
- ~160 affected facilities/stacks will be affected with new regulations

## New Limits for Emissions Standards

Pollutant	Existing Source	New Source
Mercury	43 pounds per million tons of clinker produced, averaged over 30 days	14 pounds per million tons of clinker, averaged over 30 days
Total Hydrocarbons	7 parts per million by volume (ppmv) for all kilns, averaged over 30 days	6 ppmv for all kilns, averaged over 30 days
Particulate Matter (as a surrogate for metals other than mercury)	0.085 pounds per ton of clinker	0.080 pounds per ton of clinker
Hydrochloric acid (major sources only)	2 ppmv, averaged over 30 days	0.1 ppmv, averaged over 30 days

# HCl Monitoring

- Proposed rules require FTIR, per P.S. 15
- Altech has proposed to EPA to expand the monitoring rule to allow other types of proven monitoring technologies
- Our solutions are the MIR-FT and the MIR 9000 with permeation sampling technology

# Mercury Monitoring

- EPA will specify new P.S. 12 for Mercury CEMS
  - 12A – Mercury CEMS
    - Problematic (labor intensive, poor data availability, serviceability)
  - 12B – Mercury Traps
- Our solution is the AMESA-M, meeting P.S. 12b



# PM Monitoring

- Final monitoring rule for PM: TBD
  - EPA is leaning towards PM CEMS
  - The rule may allow for bag leak detectors for facilities with baghouses
  - Our solution for PM CEMS is the proven BETA 5 beta gauge PM CEMS

# THC/VOC Monitoring

- Monitoring for THC is required to meet P.S. 8
  - 8A – is for VOC
  - 8B – is for THC
- Our solutions are the MIR 9000, Heated FID, and FTIR



# Conclusions

- Thank you for your interest; please feel free to ask any questions you may have.