

# Cement MACT

## Follow these 5 STEPS to Compliance

### 1 Interpret the Rule

Does kiln emit **10** or more TPY of single pollutant, or **25 TPY** of a combination of pollutants?

Was kiln built after **May 6, 2009**?

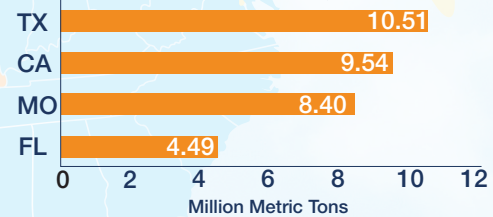
Emission limits apply!

That could build **64 Hoover Dams**



**77,800,000**  
Metric Tons of cement produced in the US in 2013

#### Top Cement Producing States



#### Follow these Emission Limits

Hg	21 lbs/mil ton clinker
THC	24 PPMVD
HCl	3 PPMVD
PM	0.02 lbs/ton clinker
Org. HAP	12 PPMVD

Hg	55 lbs/mil ton clinker
THC	24 PPMVD
HCl	3 PPMVD
PM	0.07 lbs/ton clinker
Org. HAP	12 PPMVD

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### Instrument Selection & DAS Integration

- Precise Hg or HCL monitoring
- DAS compatible
- Make room in your plant-one emission monitoring system can take up to **12.84 sq. feet** of space!

Thermo Scientific™  
Mercury Freedom System



Thermo Scientific™  
Omni FTIR CEMS



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### Site Preparation

Order Equipment  
**90 DAYS**  
Manufacturing, Prepare Plant

Equipment Arrives  
**14 DAYS**  
Install, start-up

Run Equipment  
**37 DAYS**  
Gather data, validate results, prepare for RATA

RATA  
**7 DAYS**



**90 DAYS**  
Practice gathering data, training, start reporting data

**238 DAYS**  
Later, Compliance!

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### Service Service Service

Ensure your system works for long term compliance with appropriate service.



Warranties



Maintenance



Spare Parts



Employee Training



**COMPLIANCE**  
**Sept. 1, 2015**

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