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## COEN'S Ultra Low NOx Burner Seminar School of Hard NOx

### SAN JOAQUIN VALLEY AIR REGULATION UPDATE

Amendments to Rule 4305/4351 and New Rule 4306

**WHO:** Existing boilers, steam generators and process heaters >5 million BTU/HR heat input within the San Joaquin Valley Unified A.P.C.D.

**WHAT:** Phased Approach to Additional NOx Control

Rule 4351	Phase 1
Rule 4305	Phase 2
Rule 4306	Phase 3

Natural Gas Fired Requirements (PPMV Ref. 3% O2)

	<u>NOx</u>	<u>CO</u>
A. Boilers/Heaters (5 to 20 million BTU/HR)	15	400
B. Boilers/Heaters (> 20 million BTU/HR)	9	400
C. Oilfield Steam Generators	15	400
D. Refinery Units (5 to 65 million BTU/HR)	30	400
E. Refinery Units (> 65 to 110 million BTU/HR)	25	400
F. Refinery Units (>110 million BTU/HR)	5	400
G. Load Following Units	15	400
H. Annual Heat Input Limited 9 billion BTU/YR to 30 billion BTU/YR	30	400
I. Small (<5 million BTU/HR) multiple burner with Total unit heat input >5 million BTU/HR	30	400

- Slightly higher NOx levels proposed for liquid fired units. (40 ppm)
- Other modifications to comply with federal EPA deficiencies.

**WHEN:** Adopted on September 18, 2003  
Emission control plan due on June 1, 2004

<u>Group</u>	<u>ATC</u>	<u>COMPLIANCE</u>	<u>% OF TOTAL UNITS</u>
1.	June 1, 2004	June 1, 2005	25% or more
2.	January 2, 2005	June 1, 2006	62.5% or more
3.	January 2, 2006	June 1, 2007	100%
4.	January 2, 2006	June 1, 2007	*

\*Group 4 includes:

- A. Load following units
- B. Annual capacity factor < 10% as of June 1, 2005
- C. Category I units at site with no more than 2 units subject to this rule.

**WHERE:** San Joaquin Valley Unified Air Pollution Control District  
  
240 miles of the Central Valley from Stockton/Lodi to Bakersfield.

**WHY:**

Valley Air Basin is currently classified as “severe non-attainment” for federal one hour ambient ozone standard and has until 2005 to comply; SJVAPCD has jurisdiction over stationary sources.

District has applied for downgrade to “extreme non-attainment” which would extend deadline to 2010.

**HOW:**

Retrofit with: LNB (Low NOx Burners),  
FGR (Flue Gas Recirculation),  
SCR (Selective Catalytic Reduction),  
**OR** other air pollution control device...  
**OR** a combination of two or more of the above!

**Additional Information:**

1. Complete rules available from the district’s website at [www.valleyair.org](http://www.valleyair.org)
2. Boiler BACT requirements in valley for New boiler installations: 9, 15, 20 PPM NOx
3. Other similar rules for other combustion sources.

\* Rule 4701/4702 Internal Combustion Engines

\* Rule 4703 Stationary Gas Turbines (5 PPM NOx required >10MW)

13 Rules/Amendments expected within the district over the next 12 months!

\* Senate Bill 28X targets existing electrical generating units (boilers, gas turbines, etc.) throughout the state for low emissions retrofits, but implementation is delayed.

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