

# Worldwide Pollution Control Association

**Duke Energy Seminar**  
**September 3 – 5, 2008**  
**Concord, NC**

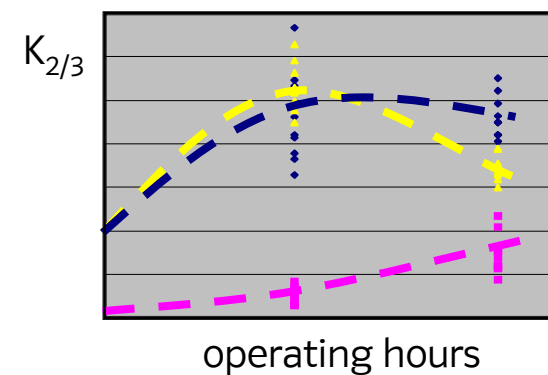
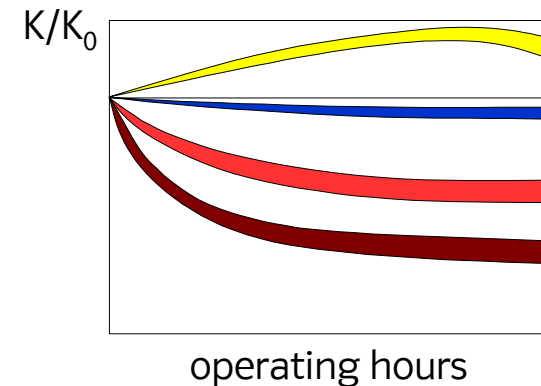


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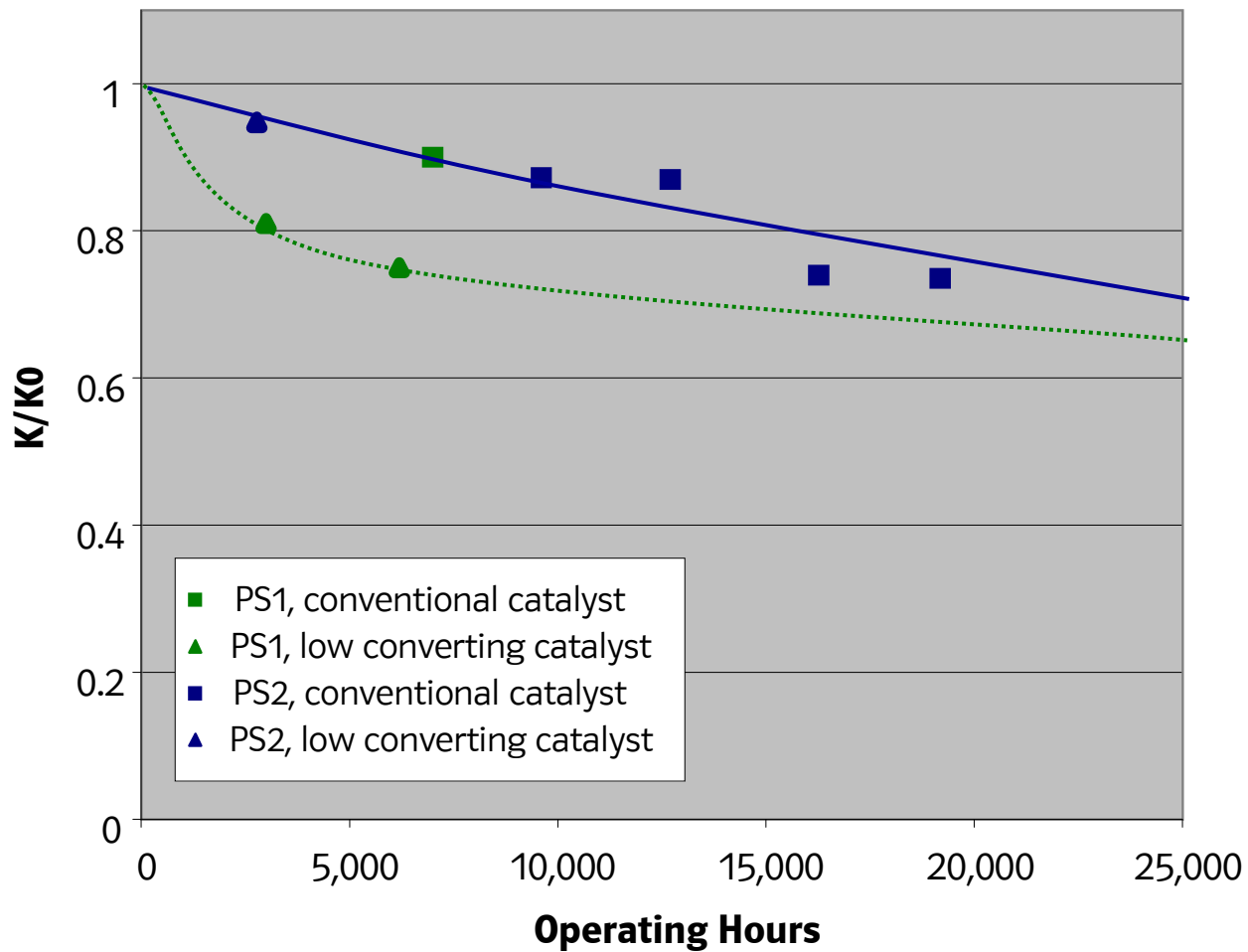
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## Testing Experience with Low Oxidation Catalyst Life / Utility Experience with SCR/SO<sub>3</sub>

- Catalyst deactivation
  - Comparable to conventional catalyst?
  - Is regeneration still an option ?
- SO<sub>2</sub> to SO<sub>3</sub> conversion rate
  - Is the conversion rate constant over lifetime?
- Reload Strategies
  - SO<sub>3</sub> emission should be considered in reload strategy
  - Individual plans required for each station
  - Individual plans required for each layer?
- SO<sub>3</sub> mitigation systems

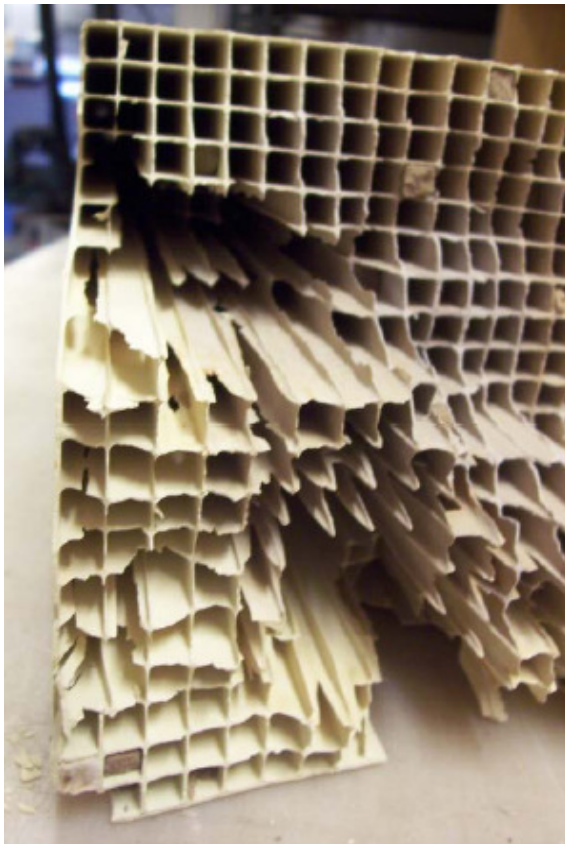


## Low oxidation catalyst - deactivation



## Low oxidation catalyst - regeneration

- 600  $\mu\text{m}$  honeycomb, 12,000 h
- 600  $\mu\text{m}$  plates, 3,500 h



## Increase in SO<sub>2</sub> to SO<sub>3</sub> Conversion Rate ("Typical Case")

