

Worldwide Pollution Control Association

WPCA-Duke Energy
FF/HAPS Seminar
October 12-13, 2011

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SORB-N-JECT™ **Technology**

***Dry Sorbent Injection for SO₃, SO₂, HCL & Hg
Mitigation***



SORB-N-JECT®
Technology

Lodge
Cottrell 

The logo for Lodge Cottrell consists of the company name stacked vertically, followed by a graphic of three horizontal wavy lines in blue, green, and purple.

Agenda

What

- **What** is Dry Sorbent Injection (equipment)

What

What is Dry Sorbent Injection?

- Sorbents
 - Injection locations
 - Equipment
- Sorbents
 - Injection locations
 - Equipment

What

▪ Sorbents

▪ Injection locations

▪ Equipment

- Sodium Sesquicarbonate – Trona (SO_3 , SO_2 , HCl, HF)
- Sodium Bicarbonate (SO_3 , SO_2 , HCl, HF)
- Calcium Hydroxide - Hydrated lime (SO_3 , SO_2 , HCl, HF)
- Powdered Activated Carbon (Hg, Dioxin/Furan)

What

▪ Sorbents

▪ Injection locations

▪ Equipment

- Flue gas temperatures >350 degrees F.
- Upstream of a particulate device
 - Downstream of the SCR
 - Downstream of the APH

- Sorbents
- Injection locations
- Equipment



SORB-N-JECT[®]
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- Sorbents
- Injection locations
- Equipment



- Sorbents
- Injection locations
- Equipment



- Sorbents
- Injection locations
- Equipment



SORB-N-JECT[®]
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- Sorbents
- Injection locations
- Equipment



Silo Discharge

- Sorbents
- Injection locations
- Equipment



Silo Discharge

- Sorbents
- Injection locations
- Equipment



L.I.W. Feeders

- Sorbents
- Injection locations
- Equipment



Compressor Bldg.

- Sorbents
- Injection locations
- Equipment



Positive Displacement Blower

- Sorbents
- Injection locations
- Equipment



Pneumatic Convey Lines

- Sorbents
- Injection locations
- Equipment



In-Line Mills

- Sorbents
- Injection locations
- Equipment



In-Line Mills

- Sorbents
- Injection locations
- Equipment



Convey Lines Splitters

- Sorbents
- Injection locations
- Equipment



Injection Points

- Sorbents
- Injection locations
- Equipment



Control Room

- Sorbents
- Injection locations
- Equipment



Portable System

- Sorbents
- Injection locations
- Equipment



Portable System

- Sorbents
- Injection locations
- Equipment



SORB-N-JECT[®]
Technology



Portable Milling System

- Sorbents
- Injection locations
- Equipment



Thank You!

Jerry VanDerWerff

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