Clairton Works Inspection
6-28-16 Discussion with Coal Dept.

No problems with one hr standard SO_2

Vacuum carbonate unit – replaced packing

Mike Dzurinko

Just boilers burn COG

Preheaters

Inject tuyeres, stoves – COG

Gore technology

Slip stream from #2 boilers, lots of wastewater

Gore technology – they give me this

Catalyst

3/4 million dollars for trial

Koppers learning

2 ovens ahead damper off

They light off dampered off ovens.

Morning report

PROVEN system

All ovens running on "B" battery

Veolia = 303 inspections

Frank - Coal Blend

Low Vol, High Vol, Mid Vol, Stud = B High Vol

Premium - A Hi Vol

20 some branded coals

6-10 coal suppliers

mine blends coal = single seam mine

WV mines, Va mines.

Marfork 10 Ash

Moisture Ash Sulfur, BTU

$8-10/ton - Powder River Basin

$50-80/ton - what they get.

Visit Mine Sites frequently

Largest in N America

Coal in by barge

6½, 8½% moisture.

Upon loading - testing

Take cuts off of sampler belts

10 different mines

Lo Vol Mid Vol Premium Hi Vol Std Hi Vol

20 diff coals - look at each barge

6 mill ton/yr.

Coal specs from supplier, have in contracts

Pulverize Coal here

Coke stability

Add diesel fuel.

More oil effects pressure on oven walls

Contract - more the ash, sulfur, 2" size coal

Reflectance, Vol matter.

How Fluid, coal in liquid form

Need good binding in coal.

Low Vol Expands Hi Vol contracts

Pulverized Coal Injection

Bunker Coal in final blend they need
Check low vol % in that blend.

Moveable wall tester
Homestead facility by water front