Burner Turndowns

Burner temps { backplate / nozzle

Discussion

NOx

LOI — why block?

Econ Out Temps

Heat Distribution

O_2 profiles

CO

Cooling Airflow Requirements

Pulv F/s

Load

Scanners — feedercalibr

eyebrows

Drum level

fineness — Why changes?

Air Balance

Fuel Balance

WB Press

SA WB dampers

Ash fusion temps

tube wastage turndowns

Boiler Monthly Testing

Burner Setup

U1

U2

Problems - burner line fires — pulv outlet temp

PA velocity - concerns BHS #s

flames 360° not balanced around

added elbow alarm switches

Modeling: a) improve fires; b) burner fires

Success? haven't made worse

Recommendations

- O_2
- Cooling Air Flow vs SA WB damper settings — ↓ Back plate temps
  CO analyzer econ outlet
- burner front temp alarm pts

Inspection U2 - track

Operation

- Run opposed burners (for mixing) when possible
- Run all 8 — no cooling air required
- Run upper levels pulv o/s (will take 12-24 hrs for cow to foul to make Mstm temps)
- HRIP screen