BURNERS

8/01/91

Spring Outage 4 week

BW meeting

Outer Registers

Doors trapezoid

Slip Joints

Spin Vanes

Slip Joint

2 position set points

Backplates

Impeller shroud

trip

Curves:

Red linear expansion

mechanical strength

creep rate 800H?

800H writeup

Slip

Expansion

Eyebrows

material selection

air flow monitoring (metering ?)
T/Cs
outer cooling air flow amounts

→ Spin vane ~~[illegible]~~ linkage
external adjustment
slip joint

Operating Temperatures

Design 1350
[1150]
equalizing air flow

Excel Burner
Data Base

→ New Kirk's comments
IPSC

concern: Overheat nozzle tip
shape of register doors

eyebrows (4") design supply - LOI - eyebrows - slagging controllable flameall/walking

across burners ~2½" distribution

→ ΔP

→ # $\boxed{\text{air flow}}$ (air foils / air monitors pitot tubes array

honeycomb

→ airflow modeling / testing Big 1/12 scale 25' $83 Nails Canda
$123K $123 Alliance Research Center

$ press drop shrouding, turning vanes

additional airflow measurement - NOx - turning O2 - eyebrows

controls: sec air flow (E/W) dampers - controlability
air reg controllers

too high $ airflow monitoring
600K to 800K
per unit

Justification Hard to Justify
Langley letter
to Hintze
Combustion Zone Profiling

Primary Air

not positive press all the way through