Burners

problem

Overheat (due to oversizing burners)

backplate temps

problem: Cooling air flow requirements ~~when~~ could not be met w/ perf guarantees

η_B / Excess Air

↑ mechanical degradation

operational problem to balance airflow closed inner outer

O_2 profile $\boxed{\text{econ backend}}$

problem: caused

O/S condition overheated inner burners

Needed compromise setting
or different solution

airflow balancing to address F/S to O/S condition

flame stabilizers

register setup

Justification not on perf however

O_2

LOI

NOx

backplate settings temp

windbox ΔP