

# COAL EMISSIONS REDUCTION TECHNOLOGY

## Smarter Technology for Your Coal Fired Boiler

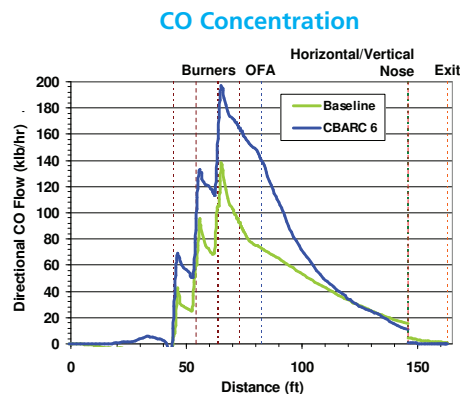
### The Principle Function

Clyde Bergemann Anthony-Ross' Coal Emissions Reduction Technology (CERT) is the cutting edge in combustion technology. It utilizes staged low pressure faster mixing over-fire air to achieve a more uniform mixing in the furnace and to optimize combustion. The Coal Emissions Reduction Technology utilizes a patented inboard and outboard design to introduce a swirl inside the furnace. Computational Fluid Dynamics modeling of each boiler will provide a customized location of the over-fire air ports to optimize combustion and reduce emission.

Clyde Bergemann Anthony-Ross' Coal Emissions Reduction Technology has a proved track record with over 31 installations in the challenging Chemical Recovery Units. Extensive experience coupled with customized application will guarantee most advanced in-furnace technology to reduce emission and increase performance.

### ⚙️ Your advantage

- Improved combustion through enhanced mixing
- Greater than 50% reduction in NOx emission with minimal impact on CO production
- Lower upper furnace temperature
- Less unburned carbon in fly ash
- More uniform heat flux resulting in less localized slagging
- Does not require high powered booster fans
- More uniform velocity profile at the nose arch
- Better utilization of furnace volume
- Improved efficiency through better mixing



Minimal impact on CO Production at the Nose Arch

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