

Eastern Correctional Institution Co-Generation Facility



CoGen and Correctional Facilities



ECI CoGen Facility Overview

Commissioned in 1987 to ensure Uninterrupted Electrical Power and Heating Resources to the Correctional Facility

Primary Fuel – Mill Spec Wood Chips - 60,000 Tons Annually
Start-Up/Alternative Fuel – No. 2 Fuel Oil

Power Production – 4MW

Two Parallel Boiler and Turbine Generator Sets
Two Back-Up Diesel Engine and Generator Sets

Employees – 26 for 24-7 Operation



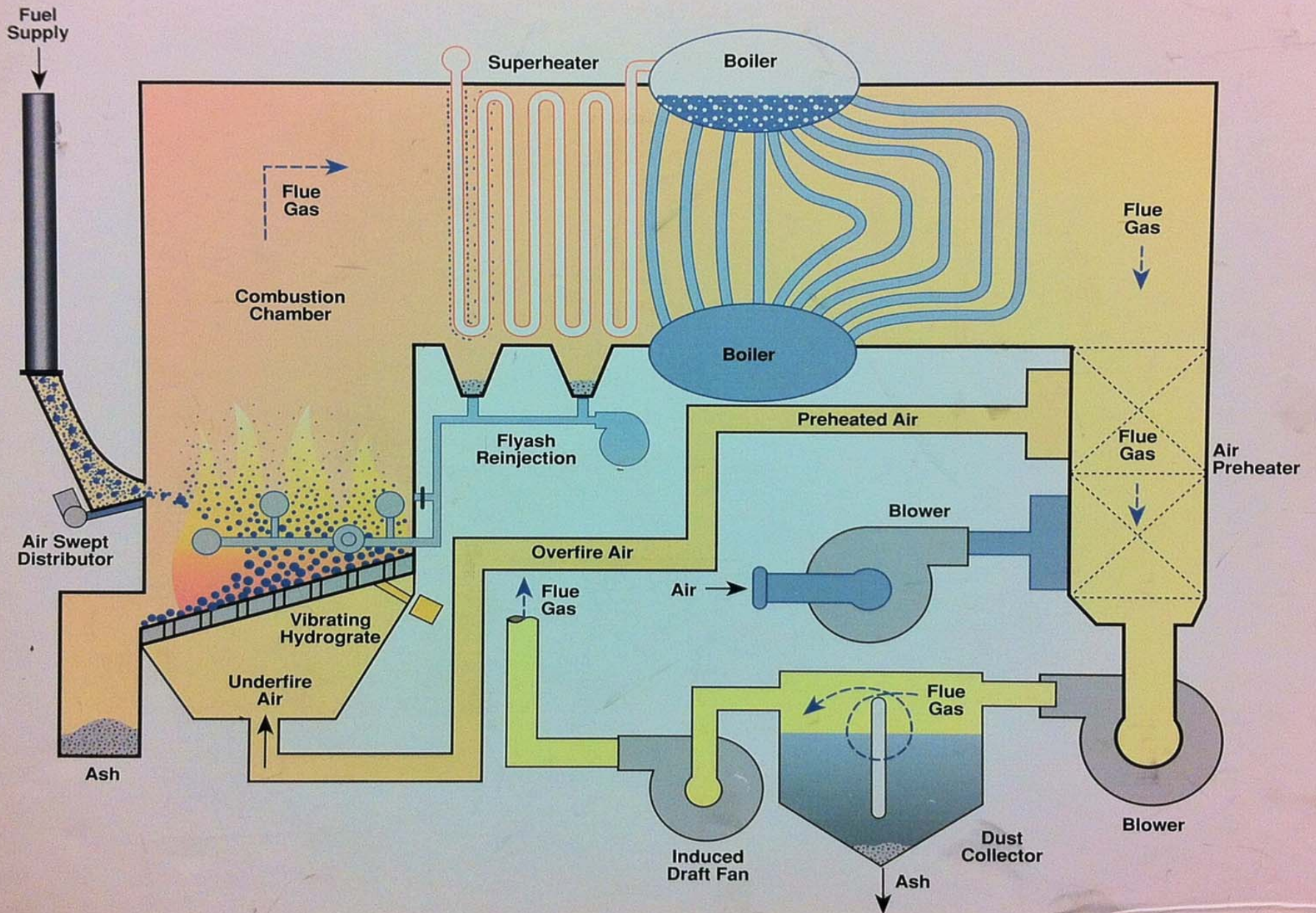
Wood Chip Outside Storage

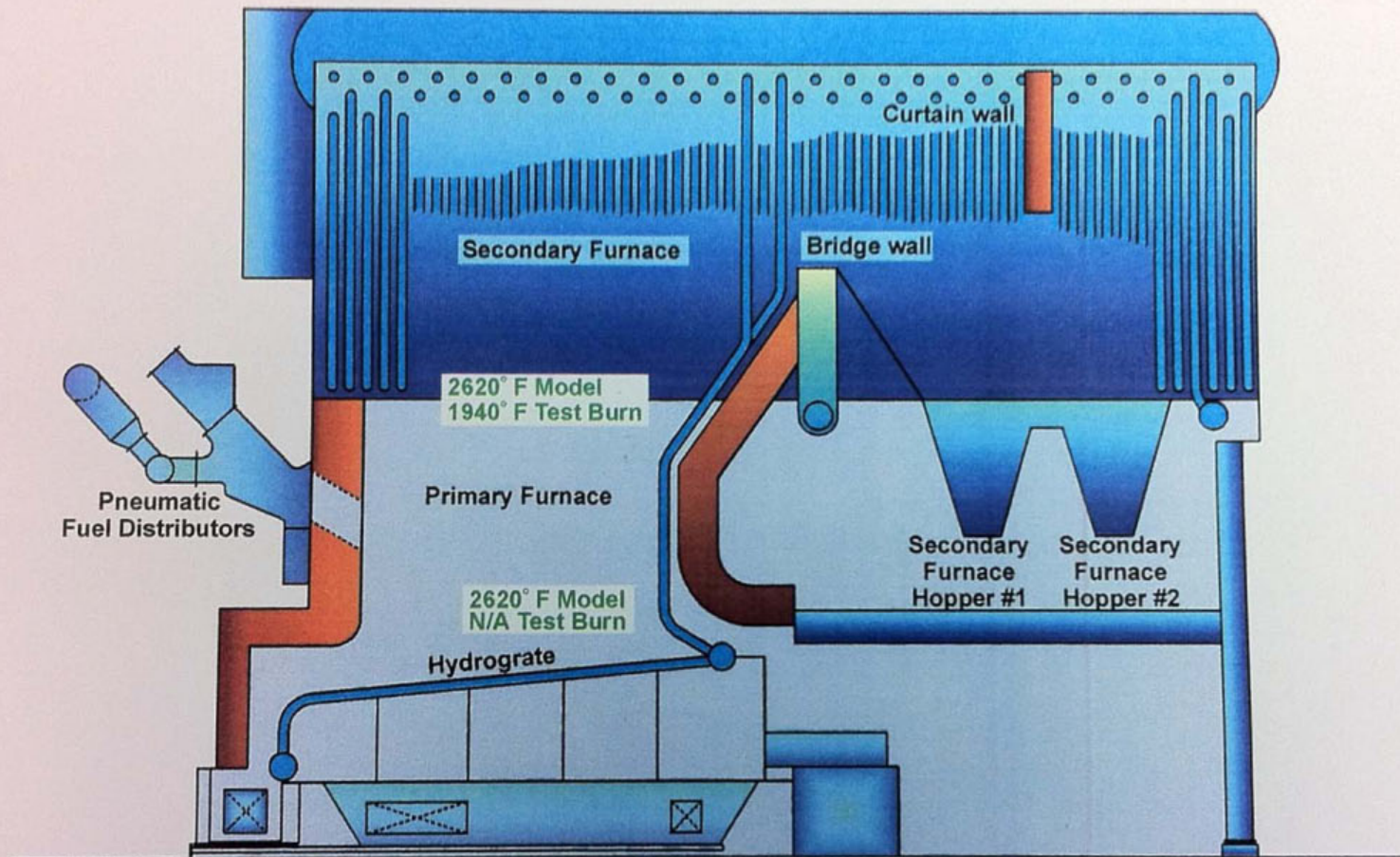


Boiler 2



Process Schematic of ECI Cogeneration Facility





Boiler Side View

Notes:

1. Test burn temperatures @ 18,500 PPH steam whereas model temperatures @ 20,000 PPH steam.
2. "Model" temperatures are from boiler computer model program in Dec '98 based on boiler as is. (Not modified)
3. "Test burn" temperatures are from actual thermocouple probe readings taken Nov '99 during test burn.

Power Line Energy Study

Power Line Energy Study

McBurney Project No. 698020

February, 2000

McBurney

**Thank you for the opportunity to meet with you.
If you have any questions, please contact:**

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