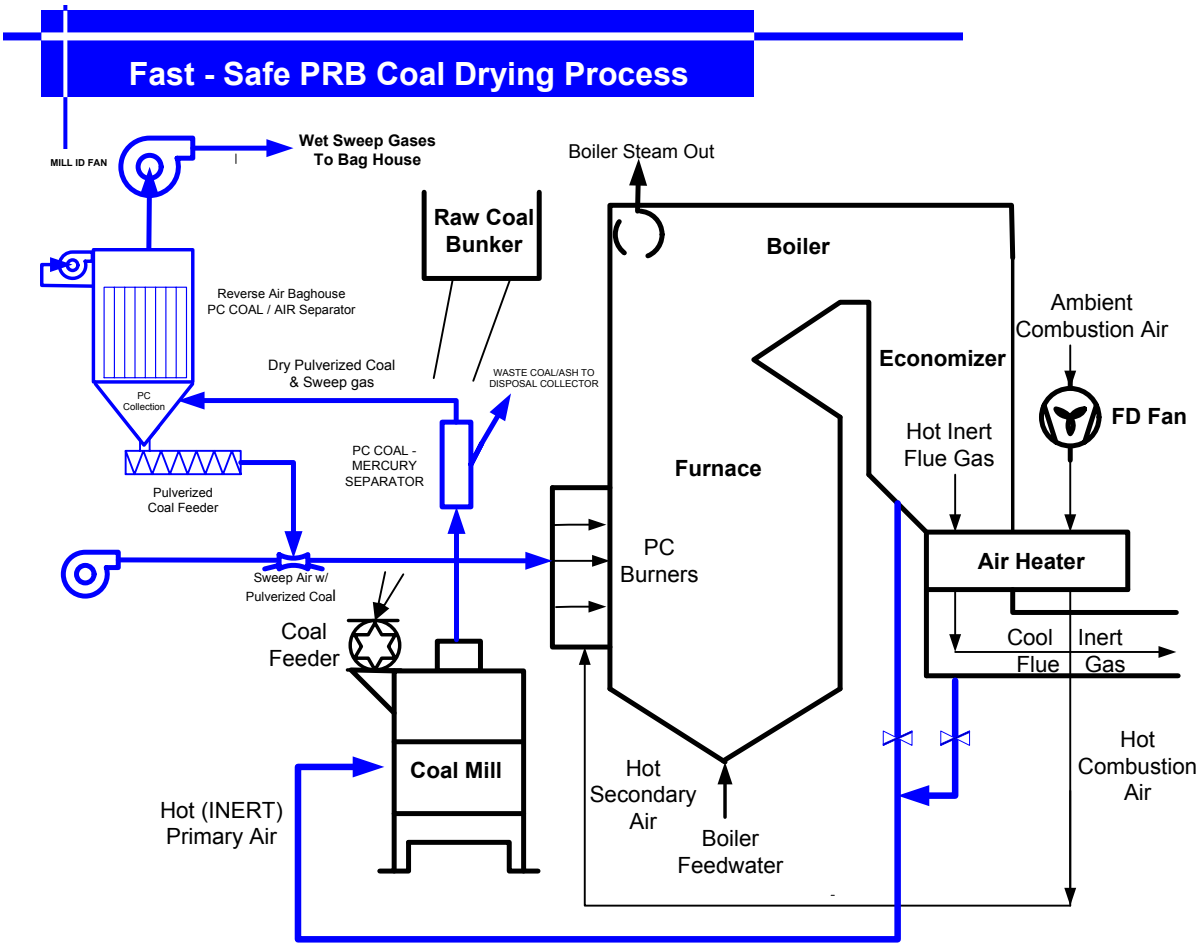
CastleLight Energy Corp.



Fast - Safe PRB Coal Drying Process

Add Powdered Coal - Sweep Gas Bag house – One for each coal mill

1.) Replace the hot primary air to the coal mill:

- With hot inert boiler flue gas ((low O_2)

Improves operation safety - eliminate mill fires & puffs

- Dries the pulverized coal (to <10% moisture)

2. Re-direct the powdered coal and wet sweep gas from the mill to a small bag house:

- Separate the wet sweep gas from the dry coal.

- Dispose the wet sweep gas around the boiler to plant stack. (removed water improves boiler efficiency)

- Collect the dry powdered coal in the bag house hopper

3.) Convey and Meter the dry powdered coal to the Burners

Processes the coal as fast as it is pulverized ……

Coal - Sweep Gas Separator

- **Separates powdered coal from mill sweep gas**
- **Inert gas used for bag cleaning (No O_2)**
- **Hopper w/ level switches maintains ~15 min. coal supply**
- **Gate & spouts & rotary feeders - meters powdered coal to Burners**

Powder River Basin (PRB) Low Rank Coals

Coal Characteristics - PRB :

- Low in Btu	~ 8300 Btu/Lb.
- High in Moisture	25 – 35%
- High in Ash	10 – 15%
- High in Mercury	130 to 150 ppb

Coal Beneficiation Target - PRB Coals :

- Increase Btu	~ 10,000 + Btu/Lb.	(+20%)
- Reduce Moisture	10 – 12%	(- 50%)
- Reduce Ash	7 – 10%%	(- 50%)
- Mercury Compliance	~40 ppb	(- 75%)

EPA MACT – Mercury (Hg) Compliance:

- Existing Plants = 5.7 lb./Trillion Btu or ~ 40 Parts / Billion