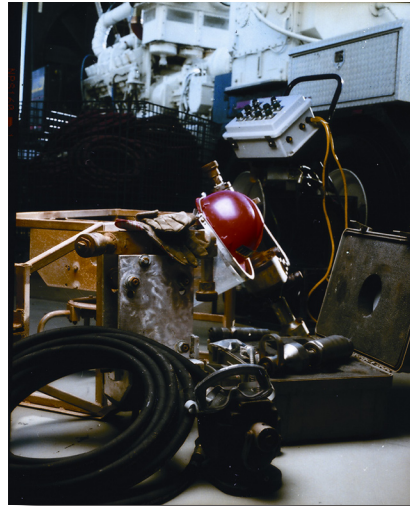


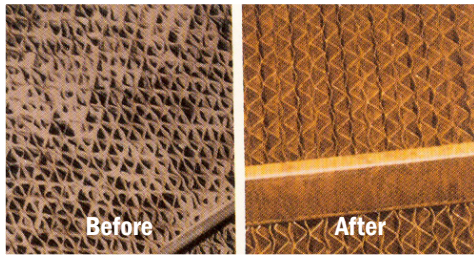
# Air Heater Maintenance

The effective use of fuels has always been a key objective in fossil-fueled boilers. Preheating the incoming air to dry the pulverized coal fuel prior to combustion contributes significantly to efficient boiler operations. By utilizing the hot air stream generated by the combustion process itself, heat that would otherwise vanish into the atmosphere is “recycled” for preheating purposes - an ingenious way of recuperating and regenerating energy in the boiler system.

This process has only one major drawback. The heat recovery equipment is exposed to the ash laden and corrosive gas stream and is susceptible to blockage. Blocked air flow passages cause the combustion air to



Equipment utilized to increase boiler efficiencies by cleaning Air Heaters.

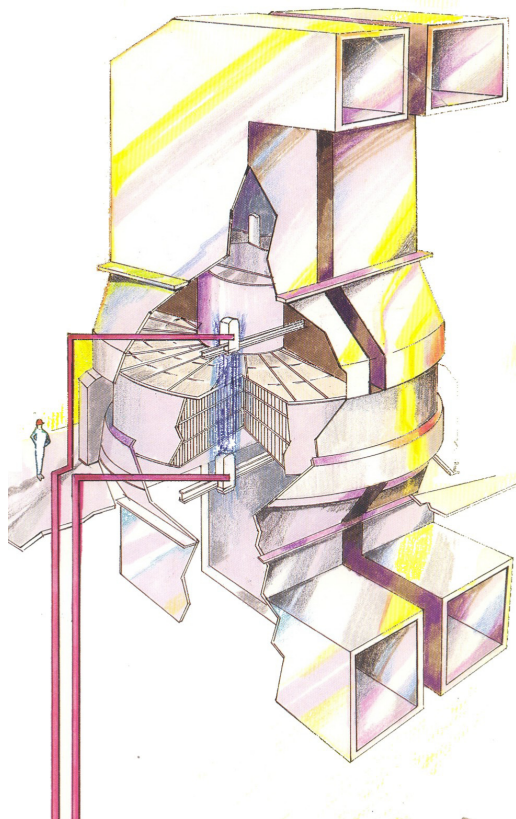


bypass the air heater, and then cooler air is introduced in the boiler. The cooler combustion air temperature then requires

more fuel consumption to create sufficient heat to dry the incoming fuel, which defeats the whole purpose of the process. In addition, temperature below 280° F create conditions under which sulfuric acid condenses and accelerates the destructive corrosion of metal components.

The solution is to keep air pre-heaters clean. The best and most cost effective method of cleaning air pre-heaters is to use a high volume, medium pressure hydroblast system to dislodge the material clogging the air flow passages in the air heater basket. The method is employed during outages when the air heaters can be accessed.

Routine cleaning of air heaters provides fuel savings and increased equipment life. Clean air heaters result in higher combustion air temperatures. Equipment life is extended in the process because corrosive sulfuric acid residue is removed from metallic surfaces.



Clean Air Heaters allow boilers to generate more megawatts of power—generating higher revenue for customers.

Contact your local MPW Representative today for more information on how MPW can increase your air heater efficiency.

