

Puroflux Extends Pump Life at Power Plant

Application: Coal-fired Power Plant in the Southeast
Particles and debris: Coal Slurry
H2O: Gland Water from Lake Source

Issue: At a pit field next to a Southeastern power plant, rejected coal slurry is deposited from a series of four centrifugal slurry pumps. The slurry pumps must be operational for the plant to process the coal properly. The pumps and seal rings require high pressurized gland water that is free of large particulate to achieve the required performance of the power plant. Particles and debris in gland water was making it into and corrupting the piston pumps, causing pump failures and halting production. At a cost of over \$ 3,000.00 per pump, the facility was having to be shut down for expensive pump rebuilds and replacements every 4 months.

Equipment prescribed: PF-64 Series Hydrocyclone Separators to remove the heavy particulate out of the water before it passes through the piston pumps.



Status: In the first five months of operation, the Puroflux Separator System paid for itself. Pump repairs went from nearly monthly to less than quarterly in the first year and the 3 pumps that needed repair were due to mechanical issues, not particulate caused problems. According to the Plant Manager, "Installing the Puroflux solids separators solved the coal contamination in our process water, and we were very happy with the quick return on our investment. I would recommend any coal-fired plant to add a Puroflux system to their operation, if they want real results to this very specific but common issue."