

Case Study: Runoff Pond Filtration



► Company Profile

Integrated coal gasification combined-cycle (IGCC) power plant that produces enough electricity to serve 75,000 homes.

► Challenge

Filtering runoff water from pond and sending it to reservoir. 700 GPM. Effluent TSS not to exceed 30 mg/L for a monthly average. No data available for raw water quality. They currently use a large old sand filter that they want to replace. Cost to replace was very high and they asked if we had something more simple.

► Solution

NOVA Quantum is a rotating drum disc filter with a 20 micron stainless steel mesh. NOVA provided a pilot at no cost to prove their technology would work. After 2 weeks of piloting and several samples analyzed the customer was happy with the results.

► Bottom Line

The NOVA filter provided consistent effluent TSS with an average well below the 30 mg/L. The footprint is smaller and the reject water is less than 1%. All these parameters outperformed the previous sand filter. The customer upgraded the order to include a 2 year service and warranty contract.

