



Power Plant Finds a Solution for Cooling Tower Dirt Buildup

Equipment Prescribed: Puroflux PF-63 Series with Particle Recovery Vessel
Particles: Silt, Dirt, and Debris

Issue: Located at a base of a high mountain in the Northwest, is an expansive biomass/wood-fired 13-MW Cogen system. To guarantee extended maintenance cycles in between plant shutdowns, the lumber mill's system needs to offer a zero discharge for their facility requirements. Weather in this area deposited many types of dirt and debris into the cooling tower basin, which is exposed to the open air. Their cooling tower basin was loading up with high amounts of dirt and debris.

Equipment Prescribed: Two Puroflux PF-63-080 Hydrocyclone Particle Separators with Particle Recovery Vessels, and an engineered basin sweeper system that included Puroflux high performance sweeper jets to continuously sweep the cooling tower basin floor with pressurized water, a pumping system allows flow through a network of eductor nozzles. The pump inlet collects particles, dirt, and debris swept by the sweeper jets.

Status: The cooling tower basin was drained for inspection after 18 months. At first observation, they reported there now is no visual build up in the basin of dirt and debris.



Their Mechanical Engineer said "In maintaining the system to be free of dirt and debris, the Puroflux system has performed extremely well. The separators reduced our build up to promote peak efficiency. As noted by the results of this inspection, it is a valuable asset to our cooling tower performance."

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