



**Application:** University Campus HVAC Cooling Towers

**Particles & Debris:** Silt, Sand, Scale, Rust

**Issue:** A Northwestern University had reduced their HVAC maintenance staff due to budget cutbacks. Regardless of the cutbacks, the maintenance requirements on those cooling towers did not reduce, but instead became deferred and compounded. The facilities team must keep up with a stacked workload, and find solutions to get the same amount of maintenance done on the tower basins done with less staff.

**Prescribed equipment:** The Environmental Services Supervisor on campus recommended Puroflux Hydrocyclone Particle Separators to remove problematic particulate that was causing fouling throughout the system piping. Efficient filtration is proven to provide a generous payback over time in relation to energy, chemical, and water savings, and this university did just that. Aside from the decrease in maintenance costs, Puroflux Separators offer other advantages for the campus cooling towers. The basin sumps act as the catch for the air scrubbing being done by the water cascading over the cooling tower fill. The accumulation of particles and debris in the warm water basins creates an ideal environment for Legionella to grow, as well as other pathogens, and bacteria. When the sediment is removed, the biocides that are added can more effectively do their job as they're engineered to. "After one month there is no doubt on our team, that there is a definite difference between the cooling towers basins with and without Puroflux systems".



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