



Huge reduction in water usage follows AESSEAL® audit

The US petrochemical company Westlake is saving millions of gallons of water each year following advice from AESSEAL® on how the company might reduce its overall consumption.

Westlake, which is based in Calvert City, Kentucky, signed a contract with AESSEAL® in 2017 for consultation on seals, seal support systems, and water management. An audit of water consumption by AESSEAL® engineers found that pumps in the Chlorine Unit using dual seals with DM Water quench to drain were using water at 2.73 gallons per minute - a total of 1.43 million gallons a year per pump. In total the ten pumps were using 14.3 million gallons per year at a total annual cost of more than \$21,500.

To minimize consumption, AESSEAL® recommended the use of De-rated AES15™ vessels with stainless steel water inlet kits. Ten seal pots were installed between May 2020 and June 2021 and now instead of using 2.73 gpm of DM Water the seal pots are using just two tbsp of water per day, reducing consumption by 14.3 million gallons of water a year. As a result Westlake has so far reduced its consumption by over 60 million gallons, saving the company more than \$21,500 annually over the ten pumps.

Westlake's Chlorine Maintenance Supervisor Devin Griffin said that the DM Water Savings Project had been a great success. "We not only have seen a large reduction in water consumption," he said, "but we have also seen an increase in the MTBF of the pumps. As a result, the seal pots have not only saved Westlake money in water usage, but also in maintenance costs and downtime."



'Saving over 60 million gallons of water'

Industry:	Petrochemical
Product:	AES15™
Application:	Chlorine
Water Savings:	>60 million gallons (and counting)
Savings:	\$21,500
Reference N.O:	TD3115365

