

Petrochemical – Petrochemicals Package DAF Implementation

Exxon Mobil, Singapore

How we created value

- High performance and good capture efficiencies
- Fully automated system
- Reduced maintenance and operational costs
- Low down time
- Reduced power consumption



Brief

At an Exxon Mobile petrochemical process plant in Singapore, increasing amounts of oil and grease were seen to be consistently reaching the biological treatment part of the process. Exxon Mobil searched for a technology to remove the high oil and grease content from process wastewater prior to it reaching the biological treatment phase.

Solution

The Dissolved Air Flotation (also known as microflotation) technology is a well-known method of particle separation. Microbubbles are created by dissolving air into water under pressure. When the air-saturated pressurized water is released, microbubbles are formed. Chemical, physical and electrical forces cause suspended solids and colloids to attach to one another or to air bubbles which float to the surface and are scraped off. Coagulation and / or flocculation chemicals enhance the process.

Outcome

Seen as a critical element in the treatment of wastewater at the plant, the DAF unit was installed, started-up and handed over into operation in record time

The unit has achieved its required oil removal efficiencies.

Since switch-on of the new plant, it has continued to operate trouble-free and within its operational parameters.

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