



ELGIN SEPARATION SOLUTIONS CASE STUDY

Retrofit of Offshore Intake and Inline Strainer

Industry	Chemical
Problem	High maintenance and debris handling costs, poor water quality
Solution	Retrofit to passive screen system with wedge wire screens
Result	Improved water quality at intake. Reduction of operating and maintenance cost. Project payback of 2 years.

Reduced Cost and Improved Performance by Passive Screening

A chemical plant replaced their existing intake structure –offshore intakes with 1/2" diameter screen openings -- with Elgin type screens. The old intake structures had required significant maintenance and created periodic outages. In addition, there was considerable debris in the intake water that had to be removed with an in line strainer system.

The in line strainer systems were expensive to operate and created significant maintenance burdens. The new intake systems included Elgin type screens with openings that excluded the debris that was otherwise gathered and processed through the in line strainer system. The retrofit screens have eliminated the periodic outages and the need for screen maintenance. In addition, the use of the screens has made it possible to take the in line strainer out of the flow loop saving the cost of operating and maintaining the equipment. Costs associated with the collection, processing, transportation, and disposal of debris has been eliminated. Water quality delivered to the process stream has improved. Engineers for the facility calculated payback for the retrofit to be less than 24 months.