



ELGIN SEPARATION SOLUTIONS CASE STUDY

Custom Cooling Water Intake System

Industry	Power Generation
Problem	Power plant cooling water intake system had to be modified for better performance, to halt zebra mussel attachment and to comply with EPA Regulations.
Solution	Passive screen system was designed and sited with the right dimensions and location to minimize adverse environmental impact. Screen was coated with Jacquelyn™ Corrosion and Zebra Mussel Resistant Coating.
Result	Improved water quality at intake. System was permitted with the appropriate screens and is now in successful operation. Elgin modifications to screen saved 25% over standard wedge wire intake design.

Cooling Water Intake Systems

Elgin Separation Solutions Intake Screens are effective for cooling water systems for power plants and other facilities. Elgin developed the Cooling Water Intake Screens for a power generating facility in Wisconsin. The site included several challenges, including environmental concerns, zebra mussel infestation, damage to the existing pipe, and the system was going to be placed in a high traffic area. Elgin used flow modification to define the velocity profile of the screen and avoid environmental damage. The zebra mussel problem was addressed with patented Jacquelyn™ Coating. Elgin developed a screen geometry that allowed it to be easily installed within the existing system while maintaining a low profile to avoid boat traffic.