



316(b) Fish Handling Solutions

The leading supplier of raw water intake screens, parts and on-site service for over 50 years.



YOUR EXPERIENCED 316(b) PROJECT PARTNER

As the largest full-service travelling water screen manufacturer in North America, Atlas-SSI offers the industry's most comprehensive engineering and manufacturing capabilities for 316(b) projects, including new installations, screen rebuilds, replacement parts and ongoing service.

Our Modified Ristroph Fish Handling travelling water screens are currently being used around the country in both thru-flow and dual-flow configurations. We have optimized and demonstrated in the lab and in the field that our fish handling approach represents the best technology available (BTA) for achieving EPA Clean Water Act 316(b) regulations.



BEST TECHNOLOGY AVAILABLE (BTA)

Our modified Ristroph Fish Handling design has been certified in the lab and proven in the field to meet or exceed the EPA 'Final Rule' for raw water withdrawal.



ENGINEERED TO MAXIMIZE UPTIME

We understand the unique demands of operating a 316(b) raw water intake system and have engineered SmartScreen® technology solutions to ensure ease of operation and uptime.



NATIONAL INSTALLATION BASE

Each 316(b) installation is unique and customized to local aquatic species and water velocities. We have installed and serviced fish handling intake systems throughout the United States.



INDUSTRY-LEADING R&D

Dedicated to continuous research and development, we have partnered with the Electric Power Research Institute and Alden Labs to develop systems that maximize the safety of aquatic life.



- 1 As water flows through the screen, aquatic species are captured in fish-friendly baskets.
- 2 The aquatic species are gently sluiced off the baskets using a low-pressure water spray.
- 3 Aquatic species are safely diverted into a trough that returns them to their habitat.
- 4 The baskets are thoroughly cleaned using a high-pressure water spray to remove heavier debris.

316(b) COMPLIANT SYSTEM

If you are required to upgrade your raw water intake system to be fully 316(b) compliant, Atlas-SSI will work with you to design a dual-flow or thru-flow travelling water screen to meet the unique needs of your facility. Our team will design and manufacture a brand-new raw water intake system or rebuild your existing screen, no matter what the make or model, with a new screen warranty guarantee. A quick consultation with the Atlas-SSI team will help you determine which option is the most cost-effective for your facility.



FISH-READY INTAKE SYSTEM

If you are upgrading your raw water intake system and you anticipate that 316(b) regulations will impact your operations in the future, Atlas-SSI can design and deliver a 'fish-ready' water intake solution for your plant. This means that all the core infrastructure components will be in place to quickly upgrade to a fully 316(b) compliant system when required. Until that need arises, you can continue to operate under normal raw water intake screen operations.

316(b) SMARTSCREEN® TECHNOLOGY

Atlas-SSI water intake systems can be enhanced with SmartScreen® technology features that use a variety of data sensors to remotely monitor site conditions in real time to optimize system performance, which is especially important when running a 316(b) compliant screen 24/7 for 365 days a year. A user-friendly interface enables facility technicians to review event history, automatically adjust screen speed and proactively order parts or schedule service.





316(b) Compliance in New York City

Atlas-SSI completed a comprehensive upgrade of the entire screening system at the East River Generating Station to prepare it for incoming 316(b) regulations. This turn-key system included a site assessment, equipment design, manufacturing and technical support for the installation of five new Modified Ristroph Fish Handling Dual Flow Travelling Water Screens. The Atlas-SSI project approach was selected as the best technology available (BTA) following a competitive bidding process that evaluated several alternatives against criteria such as cost, reliability, ease of operation and maintenance and energy consumption.

Upgrade to a Fine Water Intake Screen

In anticipation of new 316(b) regulations, a large power utility in the northeast turned to Atlas-SSI to install eight fine mesh (.5 mm) dual flo conversion screens. In addition to several on-site infrastructure upgrades that were made to accommodate the new screens, SmartScreen® technology was installed that enabled the client to monitor and control every function of the screen based on real-time conditions. Despite the screens running 365/7 days per week, this successful project approach resulted in over nine years of continuous run with routine maintenance only.

SAFETY DEFINES OUR CULTURE

We are proud to be a trusted extension of our clients' in-house engineering and maintenance teams. As the most experienced water intake system provider in North America, we operate with an uncompromising commitment to health and safety at our facilities and on the jobsite. Safety starts with our leadership team and touches every employee through daily hazard assessments, safety training and ensuring that all essential industry safety certifications are in place.

We are here to help. Contact us today.
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