



**Johnson
Screens**

A brand of
Aqseptence Group

316b Summary and Aqseptence Groups' Solutions

Geiger® Multidisc® and Johnson Screens® Passive Intake Screens offer solid solutions and economical options to comply with 316b regulations



316b Summary

The final 316b rule has been signed with the goal of protecting aquatic life in our lakes and rivers. It will affect 1,065 existing facilities (544 power facilities and 509 manufacturers). It applies to existing facilities that withdraw more than 2 MGD of water and uses at least 25% of this water for cooling purposes.

These facilities have seven options to consider when working to comply with 316b regulations to meet the impingement reduction requirements. They are:

1. Operate a Closed Cycle System. This involves the use of cooling towers and is one of the most expensive options available.
2. Operate a system that has a maximum through-screen design intake velocity of 0.5 feet per second (fps). Johnson Passive Intake Solutions Comply
3. Operate a system that has a maximum through-screen intake velocity of 0.5 feet per second (fps). Johnson Passive Intake Solutions Comply
4. Operate an offshore velocity cap – this has to be existing and be at least 800 feet off shore. Will be an option for limited facilities using seawater.
5. Operate a modified traveling screen that the EPA or State regulators have deemed meets the Final Rule and is the BTA for impingement reduction. Geiger MultiDisc Solutions Complies
6. Implement a combination of technologies. This is a costly item with multiple stages of equipment used.
7. Achieve the specified impingement reduction by other means – this approach will require significant engineering and study requiring a 12 month impingement mortality demonstration to meet specified minimum rates of mortality. An expensive and risky option.

Johnson Screens® Passive Intake



Johnson's high capacity Passive intake screen is designed to flow water through a non-plugging Vee-Wire surface at a maximum slot velocity of 0.5 fps to fully comply with 316b.

With 2000 world-wide installations, this product has been applied to all types of water intake applications.

There is no moving parts, so minimal maintenance is required with little to no power consumption. Also because you are not screening internal to the plant, there is no waste stream to deal with.

The screen is periodically cleaned by a blast of air from Johnson Screens' Hydroburst® System. The hydraulics of the screen are fully supported by Johnson Screens' CFD Capabilities.