CASE STUDY

Ontario Power Generation Pickering Nuclear Facility

ONTARIO, CANADA

FULL EXCLUSION HIGH TENSION NETTING BARRIER

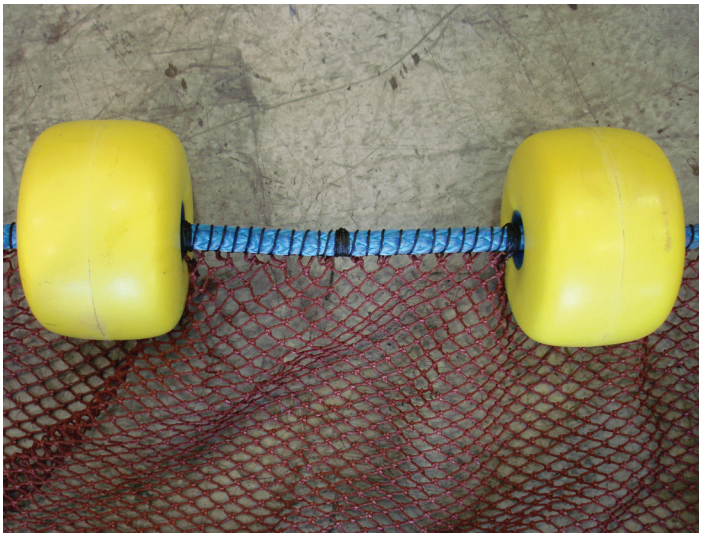
Pacific Netting Products was contacted by the owner and engineer to assist in preventing nuclear reactor shutdowns each year due to algae entering their cooling water intakes. We formed a team with the customer and their engineers to design and develop a cost saving solution and install an algae- and debris-blocking net. The success of that net led to customer confidence in design of a larger, seasonally deployed system that could provide additional benefits.

PNP participated in detailed quality control and inspection procedures to ensure fail-safe design, installation, and operation of our equipment at this nuclear facility.

In addition to blocking debris, the PNP solution prevents the entrainment of fish in the cooling water intakes and deflects the beds of algae that seasonally occur, allowing the natural process to continue. As a result, the installation resulted in a reduced risk of plant shutdowns. It provided substantial financial savings through decreased plant maintenance and increased production while protecting fish and the environment.

KEY FEATURES

- Built in 2007
- Expanded in 2009
- 2,000 ft long, 9-panel knotted Dyneema netting
- 3/4" x 3/4" and 1/2" x 1/2" net
- Provides debris control and fish exclusion
- Designed for single direction water flow velocities from 1.0 – 3.0 fps
- Seasonally deployed
- Meets fish screen criteria



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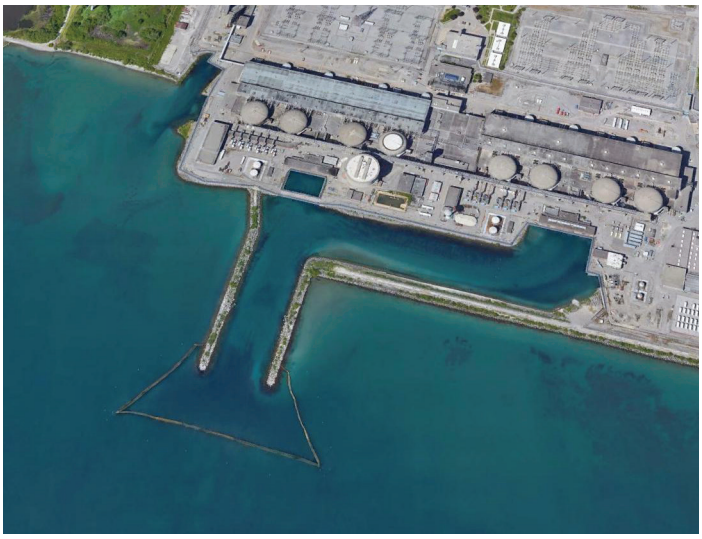
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PACIFIC NETTING PRODUCTS
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