

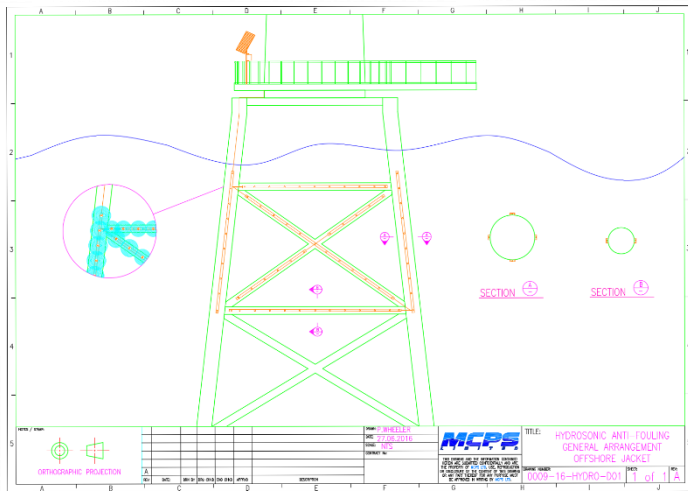
HSAF
(Hydrosonic Anti Fouling)

MCPS

L I M I T E D

MARINE AND OFFSHORE ANODE MANUFACTURER

MCPS is proud to offer an Anti-Fouling solution that will work from large cruise ships to the offshore jacket structures for oil, gas + windfarms. The system works regardless of the material use on the structure or inboard applications. The Hydrosonic Antifouling uses extremely low power adds very little weight to the structure and is a tried and tested solution in fresh and salt water.



Millions of Pounds of research have been spent on the development of effective externally applied coatings to prevent marine growth with limited effectiveness and constant recurring costs – some countries prohibit them because they are a pollutant.

Neglecting marine growth will incur high cleaning costs and can account for speed losses and resulting increase in fuel consumption and harmful emissions in vessels + increase in steel structural design of jackets.

We have customers such as:

- BC Ferries
- Alaskan Ferry Corporation
- Charleston Navigation CO. INC

The ONE TIME installation cost is quickly recovered! And this is a once per structure cost!

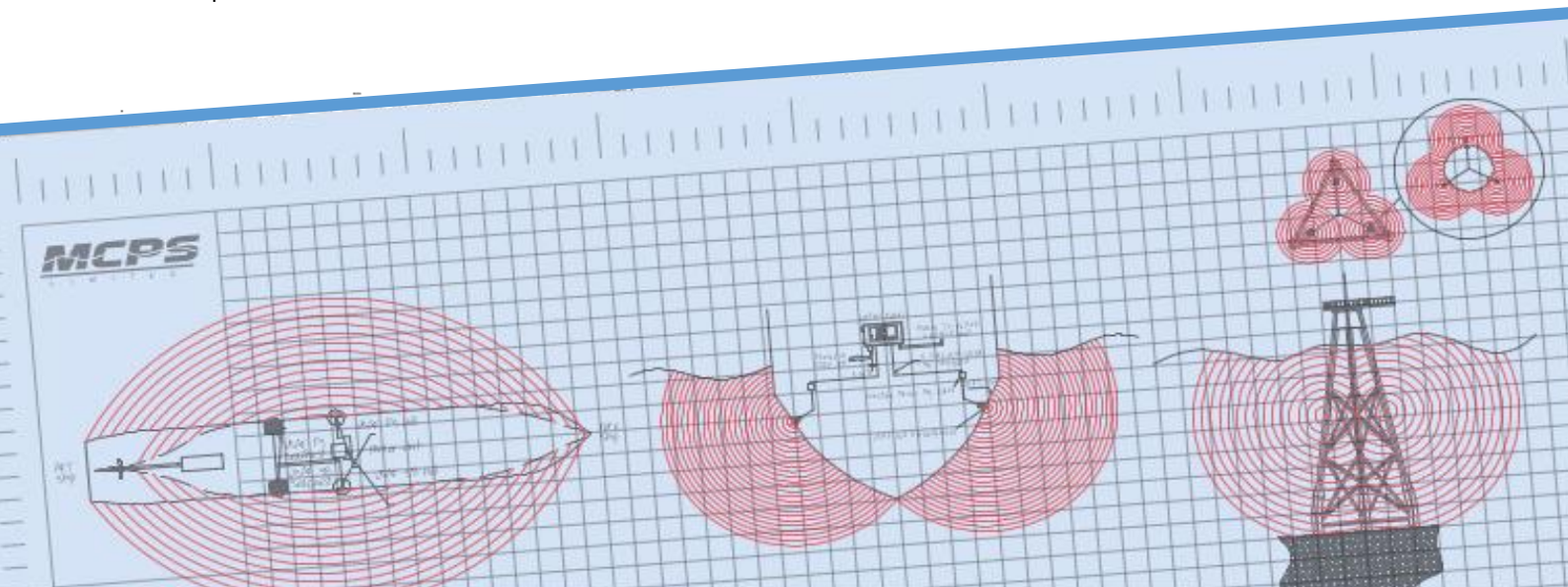
The Hydrosonic Anti-fouling system comprises an oscillator and a set of transducers operating on a 12 volts D/C with an extremely minimal energy requirement of about ¼ amp each. The compact control panel may be fitting in any convenient location. The transducers are fitted inside of the structure. The Hydrosonic Anti-fouling system transducers produce an electronic signal which is transmitted through the structure. The signal is "unacceptable." To the invaders and provides complete protection against marine pests such as barnacles, mussels, teredos, pinworms and all other common fouling found in salt and fresh water.

The Hydrosonic Anti-fouling allows you to dispense with the use of anti-fouling paints to protect without polluting the environment!

The equipment can operate 24 hours a day, 7 days a week, providing complete protection against all marine and fresh water fouling.

The Hydrosonic Anti-fouling system does not interfere with any electrolysis, marine depth-sounder or radio equipment. The installation of the equipment does not remove pest growth already present this would need to be removed before install.

The Hydrosonic Anti-fouling system control panel and transducers are installed by trained MCPS technicians and are warranted for a period of 1 year from the original installation. No other warranties are given nor implied.



MARINE CATHODIC PROTECTION SYSTEMS

Unit 6A/B Throckley Way | Middlefield Industrial Estate | South Shields | NE34 0ND | England
T: +44(0) 191 456 0466 F: +44(0) 191 454 1066 W: www.mcpsltd.co.uk E: sales@mcpsltd.co.uk

CUSTOMER COMMENTS

M.D. - Victoria, B.C. "Installed in 1976. Very pleased with the results. Saved cost, many times, in reducing the number of haul-outs."

Charleston Navigation Co. Inc. - Charleston, S.C. "We operate three pilot boats ... we are thoroughly satisfied with this system. We attribute the noticeable absence of customary barnacles to the hydrosonic devices ..."

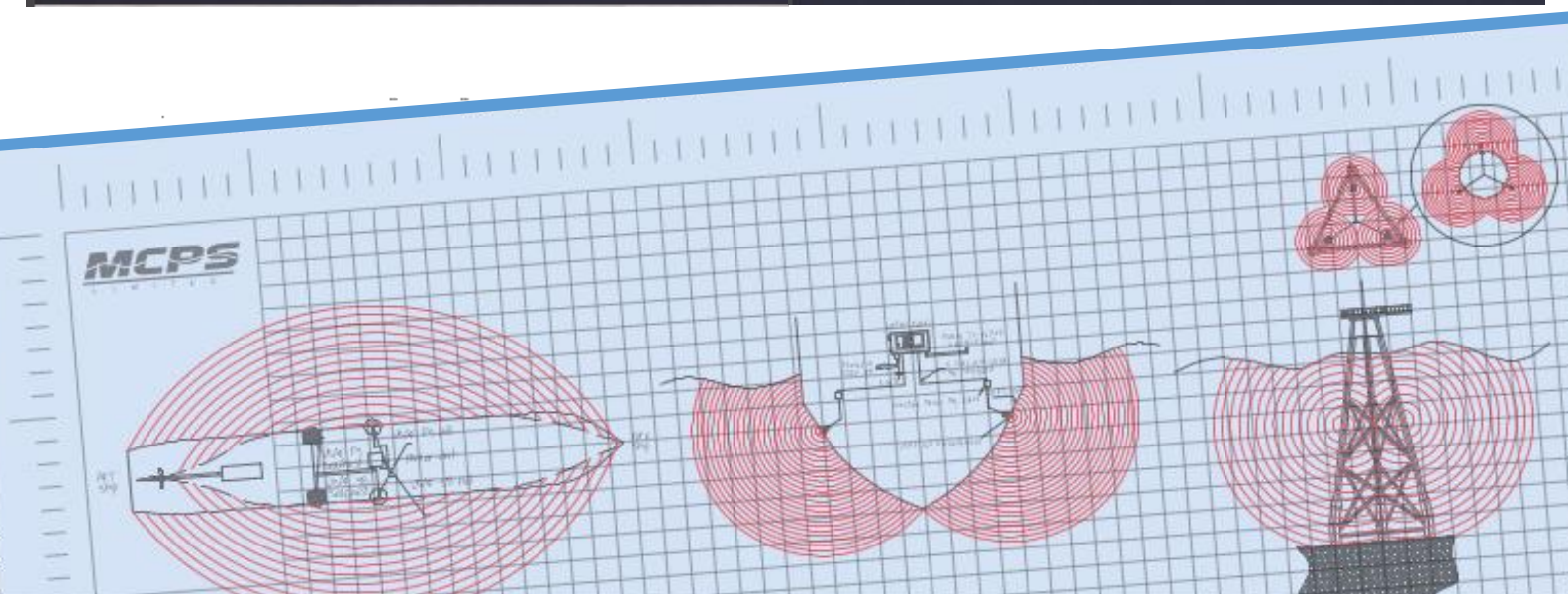
Sprayaway Marine Services Ltd. - Burnaby, B.C. "We installed your hydrosonic system in 1985. No anti-fouling paint has been used and the system has been trouble free ... almost no growth and what little there is disappears as soon as we are towed."

Capt. C.W.W., - Virginia Beach, Va. "Installed in 1981, performing admirably! The hull has no barnacles and remains clean."

C.D.M., - North Vancouver, B.C. "In comparison with other yachts, in same environment, it was evident that the anti-fouling system kept marine growth off the hull. We are pleased with the operation of the system and the savings and security which the system provides."

B.C. Ferry Corporation Pacificats, "Explorer" and "Discovery" "These vessels were so severely beset by mussels breeding on, and up through the raw water intake piping system that they required docking and cleaning every six to eight weeks at substantial cost. The first ferry, "Explorer" was equipped with HYDROSONIC HULL TENDER in December 1999. The "Discovery" was equipped several months later. When last checked the videotaped by divers near the end of 2000, both hulls were free of mussels, barnacles and weed. "

George Poor, Chief Engineer - Alaska Marine Highway System "We have been using the Hydrosonic system since our vessel construction. We haven't had to worry about mussel or barnacle growth on our Alaska Marine Highway Fast Vehicle Ferries, and our two aluminium Catamaran Passenger Ro-Ro vessels since original construction 12 years ago. The system prevents marine growth from settling in the raw water systems; the Piping and Seachest and Bowthruuster tunnel surfaces within 3' of a Hydrosonic transducer have almost no attached barnacles or mussels. The system takes up little space, requires low power, is low maintenance, and is environmentally friendly. We are very satisfied with the overall system performance."



MARINE CATHODIC PROTECTION SYSTEMS