



**A DE NORA COMPANY**

With the first of three (and counting) installations in the fleet, Hyde Marine and P&O Ferries begin their working relationship with the installation on the M/V Norbank.



**Vessel Type:** Ferry  
**Ballast Pump Capacity:** 250 m<sup>3</sup>/hr  
**System Model:** HG250G



## The Obstacle

A new dedicated ballast pump was added to the ship for the purpose of ballast water treatment. However, the original pump was still installed and could still move ballast water with no connection to the newly installed treatment system!

## Challenge Accepted

It is important to monitor any means by which the ballast water treatment system can be bypassed. The Ballast Water Management Plan required modification to incorporate the new ballast pump and provide guidance using the "old" pump. The flowmeter was also relocated during the course of commissioning to ensure that flow measure could be captured if either pump was in operation. Sometimes space for installation of this critical equipment can be hard to come by.

## Implementation

Serial communication protocols enabled the Hyde GUARDIAN control system to accept an additional external system bypass signal and thus log when either pump is in operation.

Contingency measures are detailed in the Ballast Water Management Plan so that the crew has proper guidance for how to properly handle any ballast water moved via the "old" pump. The Ballast Water Record Book maintained by the crew and data log stored by the ballast water treatment system can be used to demonstrate compliance to any Port State Control officer.



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