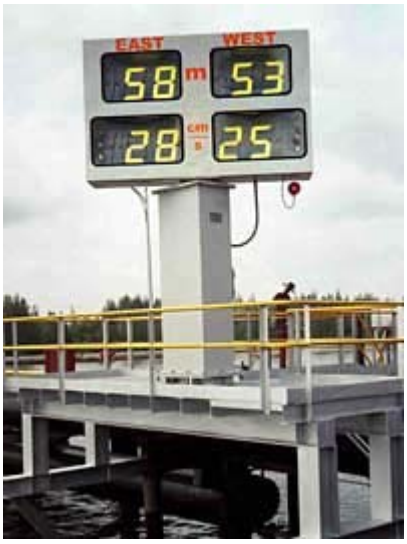
Best Practice: Electronic Mooring System



Category:	Training & Procedures
Location:	Port of Bontang, Indonesia
Date Observed:	June 21, 2006
POC:	John Mclellan John_m@banpuindo.co.id

Description: Electronic mooring system continuously measures and updates the approach speed of the incoming ships during mooring evolutions.

Discussion: This system uses two laser sensors that measures distance to the bow and stern sections of the ship. This, together with average speed, are captured at the jetty control unit and displayed to the ship and mooring crew on a wireless monitor, computer screen or jetty mounted display board, as required. The system of red and green indicating lights, with green indicating that approach speed is within the 10cm/second tolerance for post Panamax size vessels and red indicating the speed is too great, allows for suitable speed adjustments to be made. While not necessarily providing a security element, this system helps to ensure the safety of the facility.

Potential Down-side: The cost maybe prohibitive for many facilities.

Conclusion: For facilities that can afford this technology, the ability to provide real-time feedback of a ship's position during mooring evolutions can help reduce accidents and minimize damage to ships and the facility.

Cost: $40,00 to $100,000 USD.