

Iron ore mining company

A WATER FILTRATION SOLUTION FOR OFF-SHORE POTABLE QUALITY WATER

OUR CLIENT



- Client: Specialty Chemical company



- Site location: Whyalla, South Australia

THE CHALLENGE



- The mine uses an 80-year-old dock to load iron ore onto ships to be transported. However, the ships are too large to enter the bay and so barges are used to ferry the ore from shore to ship.



- The crew live on the ship on a 2-weekly rotation and require clean water. Historically, the town's fire ring water was used, but by the time the water was drawn from the mains and pumped into the ship's water storage ballasts, the water had become non-potable.

THE ASK

PROXA was approached to design, manufacture and supply a water filtration plant to remove any bacteria and traces of iron from the fire ring water before being transferred onto the ship.

SOLUTION

Despite the tight timelines and various administrative regulations, PROXA designed and commissioned a water filtration plant with a guaranteed production of 14m³/hr of filtered water based on a 24-hour-per-day plant utilisation.

PROCESS

The plant is not continuous but operates on demand every 8 weeks. A week before the water is required to be transferred to the ship, PROXA's Service Technician goes on-site to run the water filtration plant and take test samples, ready for an expedient transfer process to help minimise operational down time.



On demand every 8 weeks



Run filtration plant



Take test samples



Ready for expedient delivery

FEED WATER



Firewater ring
mains water

PRODUCT WATER



Potable quality water

SUCCESS OUTCOMES

- ✓ Significantly improved staff satisfaction
- ✓ Plant locally manufactured in Adelaide
- ✓ PROXA holds an ongoing Service Level Agreement with the client

Talk to us to learn how we can enhance existing water treatment systems to deliver successful outcomes.

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