CASE STUDY

PROJECT DEMINERILISED WATER FOR DEFENCE

PRODUCT Brackish Water Reverse Osmosis - Basic (BWRO-B-010) and MAKPAK Ion exchange

INDUSTRY Defence

LOCATION Western Australia

BACKGROUND

A major defence contractor reached out to MAK Water to discuss options for demineralised water treatment. The client required low conductivity water for to top up battery water on naval vessels. Demineralised water was needed at two different locations and the client had a tight schedule to ensure continuity of service.

Following a full consultative review MAK Water designed a containerised Brackish Water Reverse Osmosis - Basic (BWRO-B-010) plant that uses a MAKPAK ion exchange process to treat scheme water to below 5µs/cm conductivity. The plant was delivered on-time, in-budget and producing water well below the conductivity in the design specification. This enabled the client to top up batteries with low conductivity water reducing the risk of the batteries losing capacity and extending battery life.

As a result of the success of this project MAK Water has been asked to consult with international allies to produce a similar solution for their own use.

SOLUTION

Containerised Brackish Water Reverse Osmosis - Basic (BWRO-B-010) & MAKPAK de-ionisation unit.

MAK WATER KEY SOLUTIONS

- Fully mobile plant capable of being used across two sites
- Full consultative review with the client to determine technology suitability
- Onsite plant commissioning
- Simple design for ease of use by onsite operators
- Fast turnaround to fit within client deadlines
- Cost effective solution.

Onsite plant commissioning

RESULTS AND BENEFITS

- Quick response. Plant built on time and within budget
- Reduced total operating cost. Simple unit with low operating expenditure
- Compliance. Compliant permeate discharge well below targeted conductivity.

Brackish Water Reverse Osmosis (BWRO-B-010)