

CASE STUDY

PROJECT POTABLE DISINFECTION FOR OFFSHORE

PRODUCT Duty/Standby 22m³/hr UV
Duty/Standby AS1210 Custom Cartridge Filters

INDUSTRY Oil & Gas

LOCATION Offshore, Western Australia



BACKGROUND

One of Australia's leading Oil and Gas providers reached out to MAK Water with a unique UV disinfection replacement project for an offshore gas production platform. MAK Water was tasked with delivering a new UV disinfection solution in an existing area with very limited space requiring out-of-the-box thinking in regard to installation and on-going serviceability.

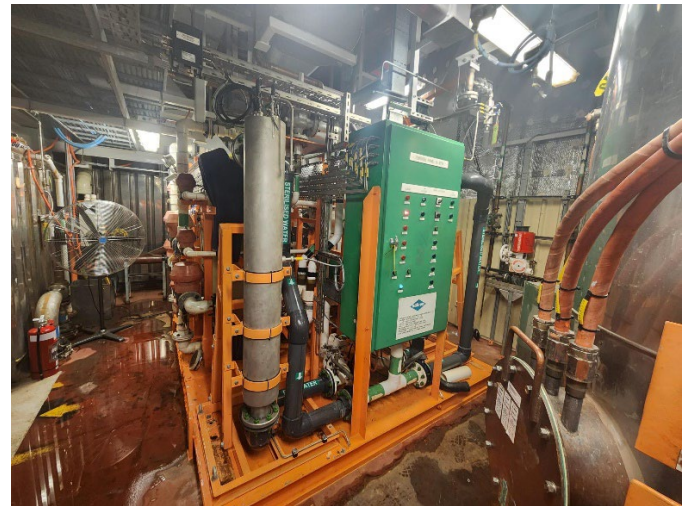
MAK Water designed and manufactured a reliable solution to disinfect the potable water supply in the potable plant room, replacing a very worse-for-wear UV system installed in 1993 which was failing. We worked closely with the client to design a fit for purpose, long-term solution, compliant with the Australian Drinking Water Guidelines (ADWG) and rigid offshore engineering specifications.

SOLUTION

Duty/Standby vertically mounted UV disinfection system on custom skid arrangement and specialty AS1210 rated custom cartridge filter housings.

MAK WATER KEY SOLUTIONS

- Custom designed pre-treatment to protect the UV arrangement.
- 22m³/hr Duty/standby UV system
- Allow for future servicing and lamp changes in a confined area.
- Manufactured custom skids to allow for UV tilt during servicing and preventing fouling on overhead services.
- Site installation and commissioning.
- Continued servicing and consumables supply.



MAK Water UV installed onsite

RESULTS AND BENEFITS

- **Compliance** Achieves required potable ADWG compliance
- **Technical Support.** Expert advice and consultation with all parties throughout the process and ongoing plant service and maintenance by MAK Water
- **Smart water thinking.** It took real initiative to assess the situation and design a system with the UV units mounted vertically on hinges, allowing them to tilt for better access. This saves space in an extremely tight existing area and allows for easier maintenance



Retrofit control panels in existing cabinets