



Barossa Offshore Project



Package No:	0482-MI20-94PO-4230
Package Name:	ELECTROCHLORINATOR PACKAGE
Scope of Work	<p>The purpose of Electro-chlorinator Package is to generate the Ionized chlorine and injected into the Seawater System and FWD fire pump sea chest to control microbial growth.</p> <p>The Electrochlorinator uses an electrolytic cell to generate hypochlorite (NaOCl) from the NaCl contained within a small seawater stream. The hypochlorite shall be self-cleaning type. Hydrogen is generated as a byproduct of this reaction and is greatly diluted with air blowers and vented to a safe location. Hypochlorite generation and injection into the sea water stream shall be included with provision for redundancy.</p> <p>The Electrochlorinator shall be designed for capacity of 80 kg/hr with dosing rate of free chlorine of 2.1 ppmw at total 29,000 m³/hr seawater flowrate. The design pressure and temperature for the package shall be 16 barg and 65.6 degC respectively. Residual hypochlorite content in sea water returned to sea shall be a maximum of 3ppm.</p> <p>The Electrochlorinator Package shall include, but not limited to:</p> <ul style="list-style-type: none">• Seawater pre-filter (2 x 100%)• Hypochlorite Generators (2 x 100%).• Hydrogen Degassing/Storage Tank and Vent Stack (1 x 100%)• Acid Cleaning Tank (1x100%)• Acid Cleaning Pumps (2 x 100%)• Hydrogen Dilution Blowers (2 x 100%)• Hypochlorite Dosing Pumps (2 x 100%)• Rectifier transformer with Local Control Panel (PLC based) (2 x 100%)• Hypochlorite Injection Flow Control Valve (Coriolis Type)• Flame Arrestor (loose supply)• On-skid instrumentation, junction box, cable trays, etc suitable for Zone 1 hazardous area requirement; on-skid inter-connecting piping, fittings and valves; common structural skid, platforms, handrails and ladders for access and maintenance as applicable, etc. <p>The scope of work shall be but not limited to design, engineering, fabrication, inspection and testing, start-up and performance testing and performance guarantee for the Electrochlorinator Package suitable for continuous operation on an FPSO to be located offshore Australia.</p> <ul style="list-style-type: none">• Contract Award Q2 2020; Delivery Q2 2021 all units

Project Registration

ConocoPhillips is committed to ensuring Australian Industry full, fair and reasonable opportunity to participate in the Barossa Offshore Project. Expressions of Interest are invited from contractors and suppliers with the relevant capability and capacity to undertake the scope of work.

This is a request for specific expressions of interest. Contractors and suppliers will be considered for prequalification and tender if suitably qualified against this package.

Note that an important part of the project registration process is to register an Expression of Interest at the correct Scope level.

Scope level definition:

Full scope: Able to produce / supply the entire package.

Partial scope: Able to produce / supply one or more of the sub-packages.

All registrations are to be completed via ICN Gateway BarossaOffshore.icn.org.au. Please contact the ICNNT if registration assistance is required. Contact details: (08) 8922 9422 or admin@icnnt.org.au.

Project Website: ConocoPhillips Australia