

<p><b>Package Number</b></p>	<p>13</p>
<p><b>Package Name</b></p>	<p>HYDRAULIC POWER UNITS (HPU's)</p>
<p><b>Scope of Work (* To be confirmed)</b></p>	<p>The STP system require the following main hydraulic systems:</p> <ul style="list-style-type: none"> <li>• HPU for STP Shipboard Equipment</li> <li>• EX certified HPU for ESD and actuated valve control</li> <li>• HPU for Swivel Seal Barrier Fluid System</li> </ul> <p>The HPU’s shall be delivered in accordance to applicable Class rules. HPU components are in general from well-known and Client approved high-end suppliers. Final dimensions and capacities are part of detail design which will be included as part of project specifications.</p> <p><u>STP Shipboard Equipment HPU</u></p> <p>STP Shipboard equipment HPU typically have a design pressure up to 300 bar with a simultaneous pump flow up to 1000 l/min, and supplies mechanical equipment like winch and STP Buoy locking mechanism. APL detailed P&amp;ID is mandatory and includes specified component brand and components (meaning no deviations).</p> <p>The HPU is normally build in painted steel with a paint specification as per an offshore project.</p> <p>Typical size of this HPU is 2500x3000x2000 mm (WxLxH).</p> <p><u>Ex certified HPU for ESD and actuated valve</u></p> <p>HPU for ESD and actuated valve control shall be delivered as an EX certified unit including EX certification for each applicable component. ESD HPU shall be delivered in stainless steel material for tank and structure. The HPU shall have its pressure and flow capacity covered 100% by accumulators during system operation. APL detailed P&amp;ID is mandatory and includes specified component brand and components (meaning no deviations)</p> <p>ESD HPU design pressure is typically 250 – 270 bar</p> <p>Normal accumulator solution for ESD HPU is 50 liter piston accumulators. An estimated accumulator capacity could then be 30 – 40 accumulators @ 50 liter, but this has to be subject to detail engineering.</p> <p><u>HPU for Swivel Seal Barrier Fluid System</u></p> <p>Swivel Barrier HPU delivers barrier oil to the special designed APL swivel barrier system. APL detailed P&amp;ID is mandatory and includes specified component brand and components (meaning no deviations). This is a unit build in stainless steel material tank and structure where pressure and flow are controlled by a piston accumulator package. HPU pressure corresponds to process pressure for project process service and will</p>

	<p>typically be a hydraulic design pressure in range of 350 – 400 bar. This HPU is a critical part of the complete swivel system and is special designed for its purpose.</p> <p>Typical size of this HPU is 2500x4000x3000 mm (WxLxH).</p> <p><u>Schedule:</u>                  Estimated package Sub-Contract Award      Q1 2022                  Estimated Package Delivery Time:              7 months FCA factory</p>
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**Project Registration**

Santos is committed to ensuring Australian Industry the opportunity to participate in the Barossa 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 all the 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](http://BarossaOffshore.icn.org.au). Please contact the ICNNT if registration assistance is required. Contact details: (08) 8922 9422 or [resources@icnnt.org.au](mailto:resources@icnnt.org.au).

Project Website: [Santos Australia](http://Santos Australia)