‘Nereus’ Flying Sheave In Line Compensator

<table>
<thead>
<tr>
<th>Scope of Supply</th>
<th>Aim</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Wave Active Heave Compensation Control System, MRU, Datalogger, Machine PLC Control &amp; Safety System, Deck Control Console &amp; Vessel Integration.</td>
<td>To add cost effective Heave Compensation to an existing Launch &amp; Recovery System (LARS) without having to modify the existing Winch.</td>
<td>15Te SWL, +/-3m (6m) heave amplitude in 8s period, hydraulic cylinder synchronisation error better than +/-2.5mm (5mm).</td>
</tr>
</tbody>
</table>

www.activeheave.com xwave@activeheave.com
CASE STUDY
Screaton & Associates
‘Nereus’ Flying Sheave In Line Compensator
www.screaton.net

Services Provided
Detailed engineering including software design, control system design, control panel & deck console build, installation, commissioning & mobilisation.

Schedule
10 weeks from order to completion of FAT and delivery.

Result
Delivered on time and budget with Successful seatrials completed without attendance of any commissioning personnel. Auto tuning and adaptation/self-learning successful, hydraulic cylinder synchronisation better that 1mm achieved at maximum velocity.

Commissioning the Nereus Flying Sheave In Line Compensator after mobilisation on the vessel.

To further reduce costs, the machine was designed to utilise and interface to the existing LARS HPU, which provided hydraulic power to the system at 250Bar, 550l/m.

Position Plot

Variable Value

Time Series

www.activeheave.com  xwave@activeheave.com
X-Wave®, 85 Willows Court, Teesside Industrial Estate, Thornaby, Stockton on Tees TS17 9PP, UK. Tel: +44(0)1642 955010