Wellhead Automation

Wellhead Control Panel (WHCP) - Single/Multi Well
Flow Control Valve System (FCV)
Hydraulic Power Unit (HPU)
Hydraulic Manifold Unit (HMU)
INTECH designs, manufactures, installs and commissions Wellhead Control Systems for Oil & Gas industry worldwide. INTECH also provides O&M (Operations and Maintenance) support to process facilities for Wellhead instrumentation and control to improve production efficiency and equipment life cycle.

Our experience with Wellhead systems has enabled us to provide both generic and custom built solutions which meet the most rigorous process requirements and environmental conditions.

INTECH's generic wellhead panel design dramatically reduces lead times. Our versatility has allowed wellheads to be brought online with extremely short timeline without compromising quality and safety standards. INTECH provides a totally integrated wellhead control package, including

- Hydraulic/pneumatic control
- NACE compliant equipment
- Compact design for space restrictive application
- Full 316 stainless steel devices
- Local/Remote monitoring and control
- ASME coded vessels
- ATEX, FM, IEC, NEC, GOST, Aussie standards
- Safety features: Mechanical/Electrical lockouts, overrides, shutdowns

- PLC/RTU control
- Chemical Injection System
- Solar power system
- Instrumentation (process, fire & gas)
- Flow measurement
- Local HMI
- SCADA interface and communication setup (radio, fiber optic, copper)
- Intrusion detection system
- CCTV system

Our Approach
## Select Project References

<table>
<thead>
<tr>
<th>Year</th>
<th>Project Location</th>
<th>Short Description</th>
<th>No. of Wells</th>
<th>No. of FCVs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>Australia</td>
<td>Engineering, Design for Modification services of MCS software for MLV Station</td>
<td></td>
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<tr>
<td>2013</td>
<td>United States</td>
<td>Hardware, Software and Engineering services of for MCS upgrade project</td>
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<td>2013</td>
<td>Pakistan</td>
<td>Design, Engineering and Supply of Hydraulic Wellhead Control Panel and associated RTU (PLC)</td>
<td>5</td>
<td>10,000</td>
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<tr>
<td>2013</td>
<td>United States</td>
<td>Design, Engineering services and Integration for intelligent well pads, Telemetry, associated software and Instrumentation</td>
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<td>2012</td>
<td>Equatorial Guinea</td>
<td>Design and Logic Modification of HM and MCS for Well 41</td>
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<tr>
<td>2012</td>
<td>Oman</td>
<td>Supply and Site Services for Hydraulic Flow Control Valves and Hydraulic power units</td>
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<td>2012</td>
<td>Pakistan</td>
<td>Supply, Design, Engineering and Commissioning,Startup of Pneumatic Hydraulic Wellhead Control Panel (SSSV=10,000 psi, UMV= 5,000 psi, WV= 5,000 psi, Chock= 2,500 Psi)</td>
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<td>2012</td>
<td>United States</td>
<td>Hardware Upgrade and Logic Modification for Subsea Master Control Station</td>
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<tr>
<td>2011</td>
<td>RSA</td>
<td>Surface Hydraulic Control System: Supply of SHCS for FCV operation</td>
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<tr>
<td>2011</td>
<td>India</td>
<td>Engineering, Supply and Commissioning Services for Telemetry and Nav-Aids systems of CALM BUOY.</td>
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<td>2011</td>
<td>Vietnam</td>
<td>Panel Design and Logic Programming for 20 Well Hydraulic Power Unit (HPU) system and 7 wells Hydraulic Manifold Unit (HMU) (SSSV=10,000 Psi, UMV= 5,000 psi, WV= 5,000 psi, Chock= 2,500 Psi) and site services.</td>
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<tr>
<td>2011</td>
<td>Nigeria</td>
<td>MCS Simulator build, testing and logic programming and HMI modifications to existing MCS software.</td>
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<td>2011</td>
<td>Vietnam</td>
<td>Hydraulic power unit for Calm Buoy to control 3 subsea valves.</td>
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<td>2010</td>
<td>Trinidad</td>
<td>Engineering, design and supply of 3 wells panel with a provision of adding another 3 wells.</td>
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<td>2010</td>
<td>Vietnam</td>
<td>Surface based intelligent well flow control inclusive of third party HMI interface for SEIC. Quantity 1; to control 21 wells with 2 FCVs each in N+1 configuration.</td>
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<td>10,000</td>
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<tr>
<td>2010</td>
<td>United States</td>
<td>Design and Engineering for the data integration between the Linux based Subsea Master Control system and DCS based ICSS.</td>
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<td>2009</td>
<td>Australia</td>
<td>Design, Engineering and Supply of “SMART WELL” sub surface choke automation (SSSV=10,000 Psi, UMV= 5,000 psi, WV= 5,000 psi, Chock= 2,500 Psi)</td>
<td>15</td>
<td>10,000</td>
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<td>2009</td>
<td>Trinidad &amp; Tobago</td>
<td>Engineering and supply of Hydraulic wellhead control panels and project site services (SSSV=10,000 Psi, UMV= 5,000 psi, WV= 5,000 psi, Chock= 2,500 Psi)</td>
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<tr>
<td>2009</td>
<td>Vietnam</td>
<td>Design, Engineering and Supply of “SMART WELL” sub surface choke automation (SSSV=10,000 Psi, UMV= 5,000 psi, WV= 5,000 psi, Chock= 2,500 Psi)</td>
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<td>2008</td>
<td>Saudi Arabia</td>
<td>Surface based intelligent well flow control inclusive of SCADA interface. Quantity 3; each to control 3 FCVs.</td>
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<td>2008</td>
<td>Saudi Arabia</td>
<td>Surface based intelligent well flow control inclusive of SCADA interface for Saudi Aramco. Quantity 2; each to control 15 FCVs</td>
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<td>2008</td>
<td>Russia</td>
<td>Surface based intelligent well flow control inclusive of third party HMI interface. Quantity 1; each to control 5 wells with 4 FCVs each in N+1 configuration.</td>
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<td>2005</td>
<td>Kazakhstan</td>
<td>Design, engineering and supply of panels for complete control &amp; safety systems for wellhead control. Scope of supply included control system hardware, control panels, and wellhead controls (including pneumatic &amp; hydraulic sections).</td>
<td>12</td>
<td>10,000</td>
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<tr>
<td>2004</td>
<td>Kazakhstan</td>
<td>Design, engineering and supply of panels for complete wellhead control &amp; safety systems. Scope of supply included control system hardware, control panels, and wellhead controls (including pneumatic &amp; hydraulic sections).</td>
<td>1</td>
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</tbody>
</table>
Full Project Life Cycle Services:
Concept, Engineering, Implementation, Startup, Training and Maintenance

Clients and End Users

Vendor Expertise

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