



PERFORMANCE REVIEW INSTITUTE

INTRODUCING TECHNICAL, SCOPE- SPECIFIC AUDITS FOR THE OIL & GAS INDUSTRY

An Achilles/PRI Partnership



Control the Process, Reduce the Risk

Introducing the new Technical Audit Service from Achilles and PRI

In a landscape of price volatility, and a potential 'lower for ever' world, the Oil and Gas industry has more motivation than ever to drive operational excellence.

Establishing transparency across the industry is key to success. However, Oil and Gas organisations have often struggled to get to grips with an array of regions, practices and operating models that have presented a significant challenge in terms of collaboration and standardisation.

The Aerospace industry has largely overcome the 'transparency challenge' establishing an enviable record for reliability and safety performance, which provides a benchmark for Oil and Gas to aspire to.

Achilles is proud to introduce its partnership with PRI, a leader in technical scope-specific audits within the aerospace sector, to help drive performance improvement in the Oil and Gas Supply Chain.

PRI has been a key enabler of industry collaboration in aerospace manufacturing and operations, driven by a strategy that seeks to maximise transparency and drive consensus both between buyers and suppliers.

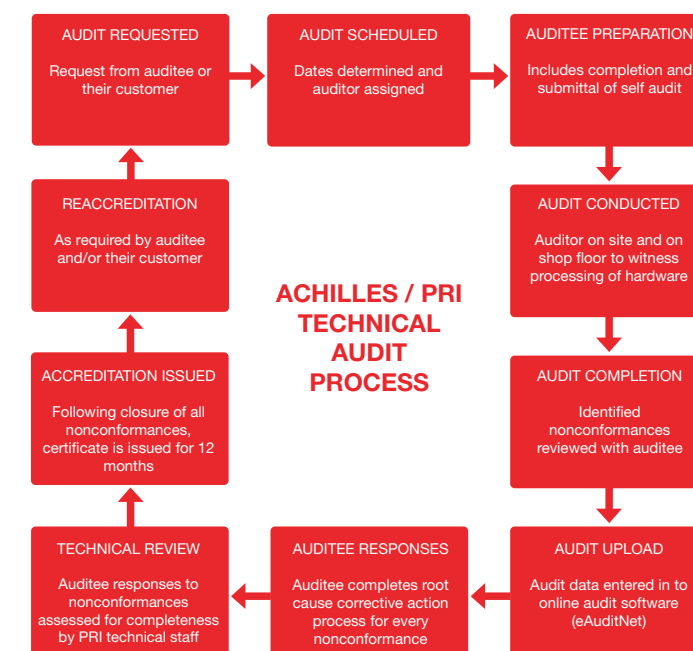
WHAT DOES AN ACHILLES/PRI TECHNICAL AUDIT INVOLVE?

The audits are focused entirely on the special process activity, so the auditee must already hold a robust Quality Management Systems certification.

The audits are conducted by highly experienced special process experts using audit criteria developed by the industry and based on international standards and customer requirements.

The duration of any technical audit is determined by its scope which will vary depending on the manufacturing activities of the auditee. Typically, the audit length is between 3 and 5 days.

Achilles/PRI Technical, Scope-Specific Audit Process:



With 50 years of combined experience in delivering audits, both Achilles and PRI assessment products are created in close collaboration with the industry to ensure the supply chain has the management systems and technical capabilities to maintain the highest standards of safety and quality.

This partnership with PRI allows Achilles to expand our portfolio and provide a complete and independent evaluation of suppliers' system maturity in terms of Quality Assurance, Health & Safety, Environmental Management, Business Continuity, Human Resources, Corporate Responsibility, Social Accountability and now also Technical Capability.

OUR CONSULTATIVE AND TRANSPARENT AUDIT PROVISION DELIVERS:

Commercial Benefits

- A cost-effective complement or alternative to in-house audits
- A reduction in duplication of effort through use of a community agreed industry standard and protocol

Business / Market Intelligence

- Full visibility of suppliers' compliance protecting brand reputation
- Tracking of supplier performance to drive best practice and continuous improvement

Confidence

- Reducing risk by sourcing and searching only prequalified and audited suppliers using a single on-line portal
- Ensuring consistent high standards across an organisation's supplier network

Specific audits available

TECHNICAL AUDIT AREAS AVAILABLE TO BUYERS AND SUPPLIERS

1

Heat Treating

A comprehensive audit of the process in which metals are heated to certain temperatures and cooled in a particular manner to alter the metal's internal structure for obtaining the desired physical and mechanical properties such as brittleness, hardness, and softness. The audit includes an in-depth review of pyrometry control of furnace equipment.

Applications: Brazing, Carburizing, Gas and/or Ion Plasma Nitriding, Hardness Testing, Conductivity Testing, Induction Hardening, Pyrometry

2

Metallic Materials Manufacturing

A comprehensive audit of the casting process steps for investment and sand casting from formation of the mould for the cast part, pouring metal into the mould, extracting the cast metal, and the finishing operations to produce the required finished part shape. The audit for forging includes material receipt, pre-forging operations, hot working operations and post forging as well as the testing operations to produce the desired finished forged parts.

Applications: Castings, Steel Processing and Manufacture, Forgings

3

Non-Destructive Testing

Audits the various methods used for the inspection and evaluation of materials for structural integrity without destroying or causing damage to the material itself. The NDT process identifies defects, flaws or wear in metal which may result in cracks when the metal is subjected to high pressure or load.

Applications: Penetrant, Magnetic Particle, Ultrasonic, Film Radiography

4

Surface Enhancement

This audit covers metal finishing processes (typically various types of peening) used to improve the metal's resistance to cyclical fatigue and stress corrosion cracking. The audit includes the equipment and media used as well as verifying requirements related to the personnel training for those carrying out the peening process.

Applications: Shot Peening, Computer Controlled Peening, Automated Peening, Manual Peening

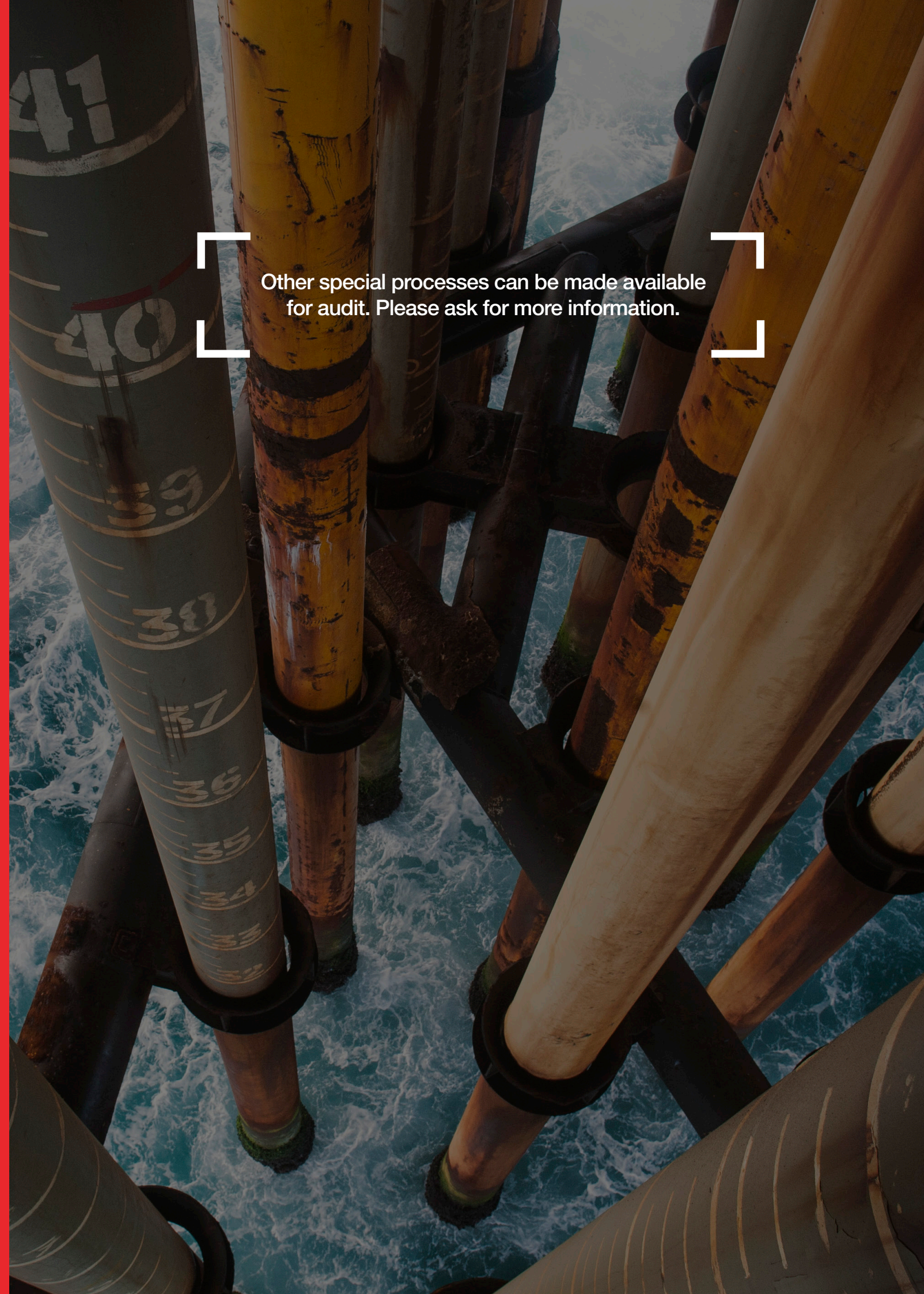
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Welding

These audits verify systems are in place to control welding. Several welding processes are covered as well as torch and induction brazing. Aspects of the audit for each weld / braze process include, material control, equipment and procedure qualification, process control, preventative maintenance, qualification of welders/welding operators and weld inspection.

Applications: Brazing (Torche and Induction), Resistance Welding (Spot, Seam, Projection), Fusion, Laser, Operator Qualification, Weld Evaluation

Other special processes can be made available for audit. Please ask for more information.



Technical audits

A key element of all the technical audits is the witnessing of hardware being processed to verify compliance to customer specifications as well as internal procedure requirements.

BENEFITS OF CONDUCTING ACHILLES/PRI TECHNICAL AUDITS

- Achieve enhanced oversight of special processes throughout the supply chain
- Deliver rigorous independent technical audits performed by process experts
- Reduce risk of costly repairs
- Reduce supplier oversight costs
- Review detailed supplier audit information including findings issued, corrective actions taken and responses to achieve closure

Who we are



Achilles Information is the global leader and partner of choice for supply chain risk and performance management.

Through supplier pre-qualification programmes, industry audits and risk management, Achilles has been a pivotal link between buyers and suppliers for nearly 30 years, providing the data and perspective to give customers unparalleled levels of insight into the businesses they work with.

Working in partnership with customers, Achilles supports supply chains that perform flawlessly and meet critical humanitarian and environmental standards.

Achilles has offices across the world, with a network of over 800 buyers and 500,000 suppliers across industrial, infrastructure and natural resources sector.



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PRI is the not for profit trade association with a global reputation for delivering safety driven audits within the aerospace industry. PRI administers the global Nadcap aerospace audit program. Nadcap delivers rigorous technical audits in 18 special processes and products. The program conducts 6000 audits a year globally and has more than 55 subscribing OEMs who use Nadcap to ensure the highest level of manufacturing quality throughout their supply chains. For more information, please visit www.p-r-i.org.



Achilles Information Limited

30 Western Avenue, Milton Park, Abingdon, Oxon OX14 4SH UK

T: +44 (0)1235 820813 F: +44 (0)1235 821093

E: enquiries@achilles.com | www.achilles.com