



*The field support branch of Delta Mobrey, offering engineered solutions to our customers' problems. We provide engineering expertise for customers on location.*



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# Installation & Commissioning

## Installation

Depending on your requirements, we can provide installation services for just our instrumentation and controls, or the installation of the complete system package. This includes all mechanical and electrical work, and any specialised work such as coded welding or NDT.

Alternatively, we can provide just advice and guidance on the best practices for installing our equipment. This offering includes equipment produced by other manufacturers.

## Commissioning and start-up

For first time start up, we can carry out an inspection of the system, to check the equipment has been installed in accordance with the recommendations, and has been set correctly for the application.

For recommissioning after an outage, instrumentation is checked to ensure it is functional, setup correctly, and giving accurate and reliable readings. Any outputs are also checked to ensure signal and alarms function correctly. In either case, we provide the skills and knowledge to give you the confidence that the system will perform faultlessly, first time, every time.

Over the years we have been involved in providing solutions into most industries, and as a result we've built up considerable knowledge, skills and understanding of the requirements of each specific industry.

- Power generation
- Energy from Waste
- Water and sewage
- Food and beverage
- Petrochemical
- Pharmaceutical
- Ship and marine
- Paper and pulp
- Government agencies
- Hospitals & healthcare
- Manufacturing
- Textile



# Planned Maintenance & Service

## Why maintenance is critical to your bottom line

### Profitability

Those that practise a planned maintenance regime are in control of their plant, if maintenance takes a back seat to other issues then the plant is out of control and in the hands of chance. Of course, maintenance incurs costs, but vary rarely as much as an unexpected failure. Unplanned shutdowns lead to loss of production, loss of income, and loss of goodwill from disappointed customers. In addition, reactive call out charges are generally more expensive than if you're covered by a maintenance contract. You might also face delays in getting contractors or replacement parts to site – costing even more disruption and money. Planned maintenance won't completely eradicate unforeseen events, but it helps identify where changes are occurring and allows breakdowns to be pre-empted.



Even ignoring breakdowns, uncalibrated instruments cost money. Over time the calibration will drift, and along with it the setpoint and the control of the process. The result is inaccurate measurements, poor control, and lost or wasted product or energy ... and money.

Having a planned preventative maintenance regime means you're in control of your plant.

### Health & Safety

Can maintenance really impact health & safety? The answer is 'Yes'. Most plants comprise a multitude of instrumentation and controls; some are very modern, such as SMART transmitters, but others are perhaps 10, 20, or even 30+ years old. Regardless of age, if your instrumentation and controls haven't been serviced or calibrated within the last year, you can't be sure your readings are accurate.

Don't wait for chance to strike – talk to us. We'll discuss your situation and make recommendations, without any obligation.

# Instrumentation

## Process instrumentation

Delta Mobrey's On Site Services provide engineering expertise for customers on location, bringing together instrumentation and control technology to monitor and control your plant. This is done utilising the wide range of level, pressure, flow and temperature instrumentation which Delta Mobrey manufactures, coupled with our multiskilled workforce. This support covers single instruments through to complete engineered solutions, with total packages for process automation applications for both new installations or retrofit systems. All solutions are conceived with the full input from the customer.



Our scope of supply isn't limited to only our own equipment, and we will include other manufacturers' instruments in our offerings to meet the demands of the application. With this capability we offer a complete turnkey solution, keeping the complexities normally associated with multi-discipline projects to a minimum. This ensures we offer the very best control and instrumentation service available. Wherever there is a requirement for the monitoring and control of level, temperature, pressure or flow of process liquids, gases or solids, we can provide a solution to the application.

## Health & Safety, Quality & Reliability

The health, safety and wellbeing of our staff, our customers, the public and the environment is at the heart of who we are and how we operate. By operating with robust Quality, Health & Safety and Environmental policies and procedures we ensure our actions don't compromise our people or our planet. Like our products, we only provide the highest quality engineers, so you can have complete confidence that the work will be completed to the rigorous standards that you demand, to keep your equipment performing accurately and reliably.

These commitments are driven from highest management all the way through Delta Mobrey. Through continuous training, qualifications and experience, we ensure our personnel are fully trained and competent to operate efficiently, safely and reliably on your site. Over the years we have been involved in providing solutions into most industries, and as a result we've built up considerable knowledge, skills and understanding of the requirements of each specific industry.

# Steam Generation & Boilerhouse

## Boiler blowdown

The blowdown of shell boilers is essential to control the level of dissolved and suspended solids within the boiler water. As the water is converted to steam, the impurities in the water are left behind and overtime build up to levels which cause problems. Foam can occur which can get carried over into the steam distribution system, affecting valves, steam traps, heat exchangers and other equipment, and can also contaminate and spoil product. Foam can also result in some types of level controls giving false readings which could have catastrophic results.

Suspended solids can accumulate and form sludge, which coats heating surfaces, reducing efficiencies and ultimately cause overheating and damage, which again could have catastrophic results. Sludge can also block ports of external level control chambers and gauge glasses, leading to false levels and dangerous situations.



There are two methods to control the level of solids in the water, bottom or rear-end blowdown, and continuous blowdown. All shell boilers have bottom blowdown valves. Some boilers also have continuous blowdown, which can be either manually or automatically controlled.

## Boilerhouse Instrumentation

Boilerhouses contain a plethora of instrumentation. Some of it is the latest modern sophisticated instrumentation, but much is older and often neglected. Yet in all cases it was provided to give the boilerhouse operator control of the processes, and if instrumentation is missing, inoperable or uncalibrated, then the boilerhouse is out of control.

## Tank Level/Contents Gauges, Controls & Alarms

Most boilerhouses have several tanks in or adjacent to them, these including the boiler feed tank or hotwell, fuel tanks and other associated tanks and vessels. All of these need some type of level indication and or control. These gauges and controls perform a vital role in indicating the contents level, controlling pumps and valves, and in some cases actuating low or high level alarms.

Delta Mobrey is one of the largest manufacturers of level equipment in the UK. We have a large range of continuous reading and point level devices, so whatever your requirement is, we can provide the solution. In addition to supplying, installing and commissioning level equipment we also service, repair and calibrate existing equipment.

# | Feedback

We are always pleased to know how our customers feel about our products. Below are just a few of the comments we have received about our engineers.

What do our customers say about On-Site Services?

*"Thanks for being able to offer top services for another year to us."*

*"...just wanted to say a big thanks to Jim for the services he provided on the boilers for us this year, he worked really well and his efforts in maintaining the levels definitely appreciated"*

*"Just a quick note to thank you for the work you did when you came and serviced our level controls last month"*

*"Really Appreciated the visit with it being short notice. Thanks Again"*

*"From first contact with you last week I felt reassured that you would be able to assist . I appreciate the quick response to getting us a service engineer on Monday"*





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Delta Mobrey has a worldwide network of trained and fully supported representatives in over 50 countries.

For more information...

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