

The logo for MESA (Medical Engineering Systems Limited) is displayed in a large, bold, dark blue font. The letters 'M', 'E', and 'S' are significantly larger than the 'A'. The 'A' is stylized with a vertical bar on its right side, and the 'E' has a horizontal bar that extends to the right, overlapping the 'S'.

MESA

MEDICAL ENGINEERING SYSTEMS LIMITED

Planning for a secure future

② Services Brochure

- HTM02-01 Medical Gas Pipeline Systems

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www.mesystems.co.uk

Mission Statement

Medical Engineering Systems Limited provides a range of medical gas pipeline system (MGPS) services to the NHS and Private Healthcare industry. Our aim is to work closely with your management team and staff, assessing and assisting in maintaining system compliance to ensure patient and staff safety.

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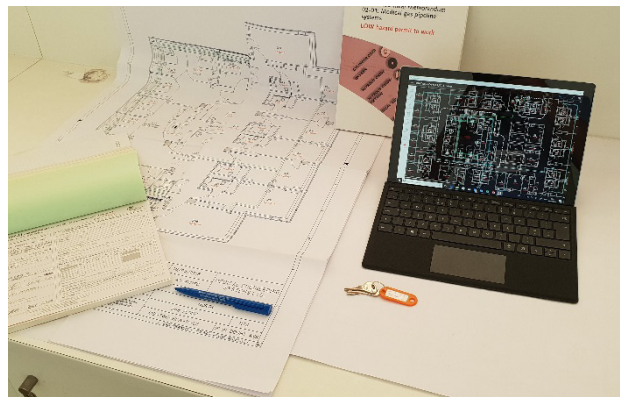
Authorising Engineer Services

Our qualified Authorising Engineer in accordance with chapter 7 of HTM02-01, Medical Gas Pipeline Systems (MGPS), has specialist knowledge of MGPS, for which your Authorised Persons (MGPS) will assume responsibility on appointment. As an independent AE appointed by your management team our service will be to perform assessments of your Authorised Persons (MGPS), recommend to your Executive Manager that the AP is able to be appointed in writing. Our AE will work with your team providing ongoing technical support. Elements provided for this service include:

Authorising Engineer Initial Site Assessment

Initial site assessment is one day on site at the start of the contract to assess the following:

- Current site systems overview assessment
- Documentation overview
- Staff level and MGPS Contractor information review
- Initial assessment report
- Ongoing annual technical phone and email support (office hours)



This provision consolidates the relationship and information required to provide support to the APs and will be required at the start of any contract where AP assessments are not immediately due.

Authorising Engineer AP Assessments

Your Authorising Engineer will visit your site and spend some time with the Senior/Lead AP reviewing site documentation and the site systems, time will then be spent with each of the remaining APs (MGPS) to conduct their assessments. A formal report and letters will be drafted off site and sent in to the senior/lead AP for each AP. If required APs can be assessed on additional sites for familiarisation to be signed off for those sites.

The programme would involve:

- Completion of a scenario and personal profile prior to meeting and discussion
- MGPS Documentation review (Permits, As-fitted Drawings, Specifications etc.)
- Assessment of the individuals training certificates
- Tour of site to assess AP site knowledge with verbal assessment “what if, what next” situations
- Review and debrief
- Forward letter of recommendation and certificate of appointment to Chief Exec for counter-signature/ final approval

AE Annual Site Audit

The annual system review will verify procedures and ensure documentation and system controls are in place. An annual one-day site audit together with a brief report will be completed to include:

- Site systems overview assessment
- Documentation overview
- Staff level and MGPS Contractor information review
- Annual audit report
- Ongoing annual technical phone and email support (office hours)



Additional Consultancy Days

Additional consultation is a provision that may be required from time to time, a provision for several days can be added to the AE service for such occasions. Typical items included:

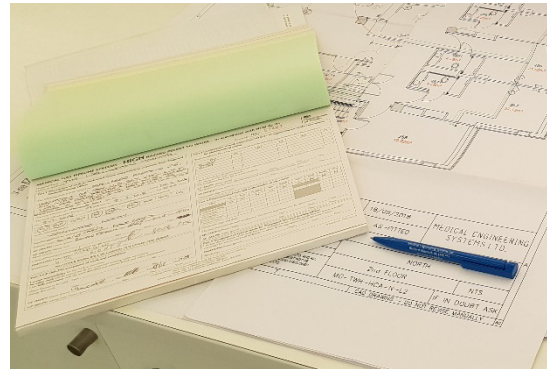
- Medical gas committee meeting attendance
- Additional on-site visits
- Systems and design verification
- Project meeting attendance
- Stakeholder meetings Operational Policy implementation
- Other medical gas consultancy as required

Remote Authorised Person (MGPS) Services

Our Authorised Person Service is designed to empower you to be able to manage your own site and be as self-sufficient as possible keeping your overheads down. It is aimed at smaller non-acute sites, community hospitals and hospices. Short term cover for larger sites is available for holiday cover or during periods of training up new engineers into the role of AP.

Items covered in AP services include:

- A Remote AP responsible for your Hospital/Hospice
- Hold duplicate site documentation relating to the Medical Gas pipeline System
- Train up some of your staff to act as deputised AP (MGPS) able to manage and issue “Low Hazard” permits to your medical gas maintenance contractor
- Be available to contact regarding specific system issues via telephone or e-mail during normal office hours
- Planned site attendance for project supervision and high hazard works



Initial Site Audit

A site visit at the start of the contract to provide a health-check of your existing system, systems of work and report any remedial actions.

Responsible Person training

Up to four members of your staff, will be trained as Responsible Persons for the Hospital/Hospice. The training will be face to face on site for one day. This training will enable the Responsible Person to implement, use and monitor the Permit to Work System, oversee the routine operation and maintenance of the Medical Gas Systems including minor repair works to the system.

Annual audit

A one day annual site audit to review and report remedial actions, to cover a sample of wards and other areas, procedures and policies for medical gases.

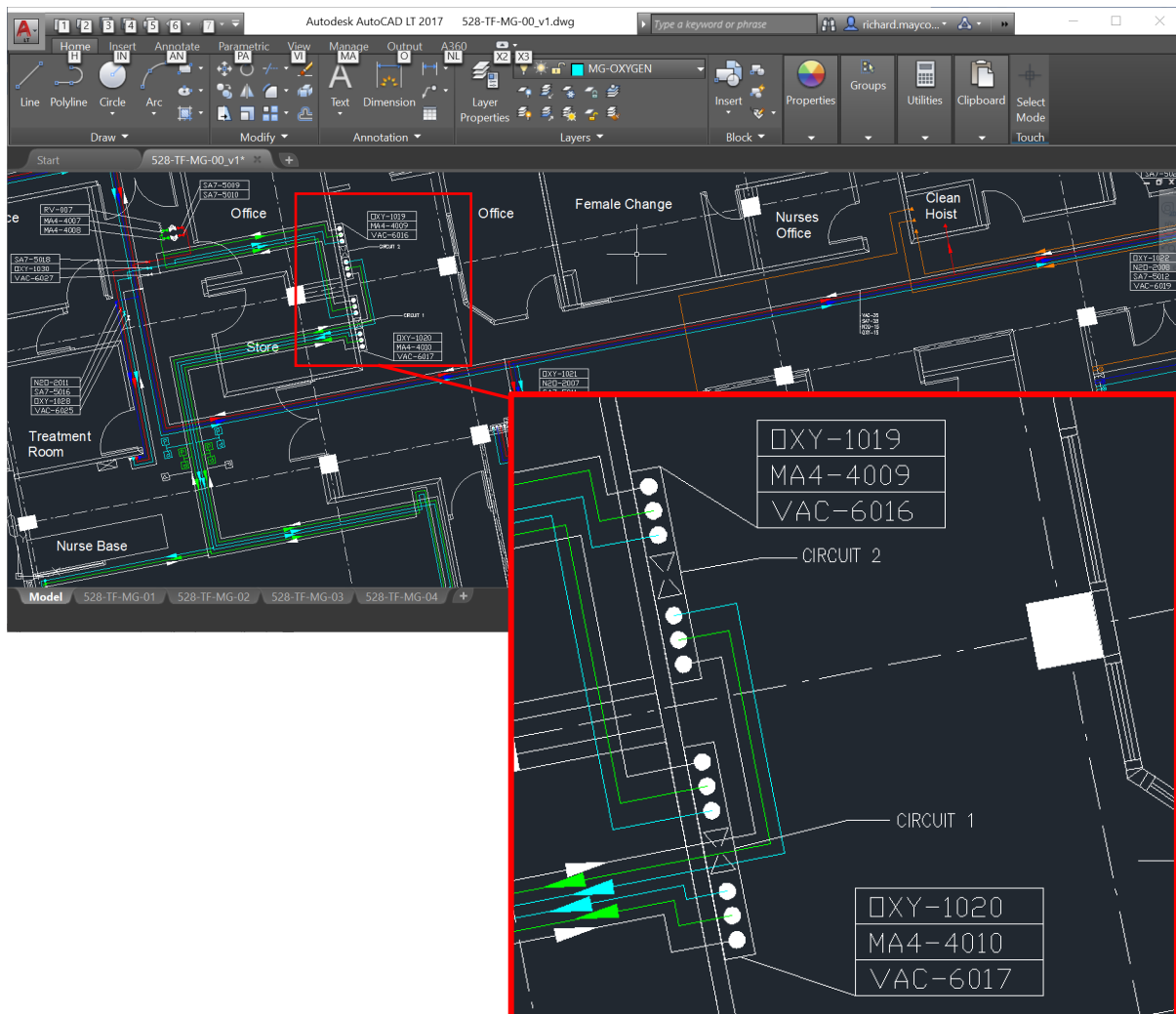
Drawings, Design & Specifications

Drawing Services

A vital requirement for your APs to be able to manage your MGPS safely and efficiently, especially during shutdowns and emergencies. As a requirement of HTM02-01 and the Pressure System Safety Regulations, up-to-date drawings and records are required. We can provide some or all, of the following to enhance and complete your drawings, or start completely from scratch:

- Systems survey, mark-up and update existing drawings
- Full site survey and production of As-Fitted Drawings
- Produce Schematic Drawings
- Produce Isometric Drawings, Flow and Pressure drops
- Apply “Traffolyte” engraved labelling to each AVSU and accessible line valve and compile a valve log

MGPS Drawings will be completed using industry standard blocks and symbols, contain the required details, be suitably layered and where required valves will be renumbered into one style and a complete valve log produced. Traffolyte style engraved labelling can be fixed to every AVSU if required.



Contact: info@mesystems.co.uk or training@mesystems.co.uk

Design & Specifications

We can provide design or validation of design services to ensure your system meets the current HTM02-01 and clinical needs. This can include some or all, but is not limited to the following:

- Site survey for siting of VIE or new Plant
- Compound, Plant and Manifold room requirements
- MGPS flow calculations and pipe sizing
- Source equipment sizing and specification
- Main, Ready to use and Local cylinder storage
- Installations and maintenance requirements

Equipment Supplies

Along with the services offered, Medical Engineering Systems can also supply the following equipment on request. It may just be a one-off purchase where you don't wish to set up a new supplier or the ongoing supply of goods without expanding your supplier base to several others.

- Cylinder trolleys
- Emergency Backfeed Kits and Manifolds
- Cylinder racking
- Cylinder Cages and Stores
- SOT
 - Flowmeters
 - Regulators
 - Suction controllers
 - Hoses
 - Demand Valves
- MGPS Test Equipment
 - Medical Gas Test & Commissioning Kit (Analogue or Digital)
 - Flow Rate Pressure Drop
 - AGSS Test Kits
 - Anti-Confusion Probes & NIST
 - Particulate and Purging Test Kit
 - Pressure Drop Test Kit
- Exposure to Waste Anaesthetic Gas Personal Monitoring
 - Nitrous Oxide Personal Monitor
 - Gas Anaesthetic Agent Personal Monitor

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