



MESA

MEDICAL ENGINEERING SYSTEMS LIMITED

Planning for a secure future

① Consultancy Brochure

HTM02-01 Medical Gas Pipeline Systems

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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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MGPS Management Documentation System Development

To provide a tailor-made MGPS management system, development and implementation programme for the hospital. To ensure the MGPS service is brought up to standard and compliant to the requirements of HTM02-01, the CQC and other relevant guidance.

The stages which will be tailored to your hospital needs are as follows:

- Investigate the status of documentation available for the management of MGPS at your site. Identify missing elements of the management system
- Develop a full MGPS management system structure and populate with existing documentation where available. Briefing managers
- Identify potential staff members, who may be supervisors currently or new in a supervisory role – to evaluate their potential to become Authorised Persons and provide a plan to develop their management skills.
- Implement the MGPS management documentation system across the trust. Develop the additional documentation to complete the MGPS management system
- Provide coaching to internal staff to ensure they are familiar with the requirements of the MGPS documentation and that activities are scheduled and completed competently
- Measure the impact of the implementation. Preparation of assessment documentation



Compliance Audit & Risk Assessment (CA/RA)

Before upgrading, adding to, modifying your MGPS, or if you have inherited an existing system, our compliance audit and risk assessment services will detail all aspects of your MGPS that requires attention. The benefit of our full compliance audit allows a holistic approach to plan and schedule upgrades that will optimize your current system and reduce unnecessary spend.



CA/RAs can be tailored to your requirements; full, partial, source equipment only or specific areas.

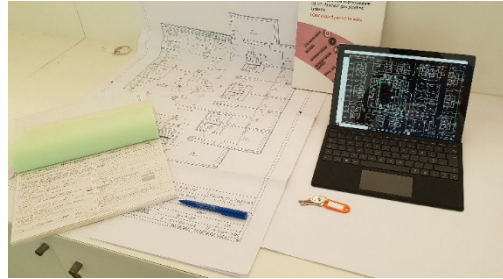
Executive management and boards are under increased scrutiny from a range of stakeholders, who are looking for assurance that internal controls are in place, to ensure adherence with laws and regulations, reducing the risks associated with non-compliance.

To address this, some organisations are implementing a regulatory compliance framework. This involves developing and establishing a compliance methodology, policies, procedures and a training programme. The benefits to this include:

- Reduce corporate oversight and guidance for compliance activities
- Improve efficiencies and effectiveness
- Increase employee awareness of regulatory compliance requirements and issues
- Minimise mitigation of legal, reputational, or financial risks
- Whilst the compliance function plays a second line of defence role within corporate governance, it also has a place in the first line of defence for its own activities with ownership, responsibility and accountability for directly assessing, controlling and mitigating risks

Project Management

To support your capital and projects or operational estates team where you require specific MGPS project management MES Ltd can provide a bespoke PM Consultancy Services for the following:



- Review current flow calculations
- Obtain and Review current ACD Oxygen usage from gas supplier
- Discuss with your Trust all potential future upgrades
- Add future usage to current demand to provide supply system requirements
- Provide specification to your subcontractor to enable exact costs to be quoted
- Provide details for ground and building general detail for enabling works
- Re-design/add to your pipeline system to add the required compliant components, ring mains and future use requirements
- Complete or add to Isometric drawings, calculate new design flows and pressure drops
- Update existing general schematic to give final layout with phased installation
- Check and sign off final install proposal drawings and details
- Organise and oversee shutdowns and backfeeding activities
- Site visits during works at all stages
- Site project meetings visits as required

Note: this is an example only, we will work with you to create a tailored Project Management Service that fits your requirements.

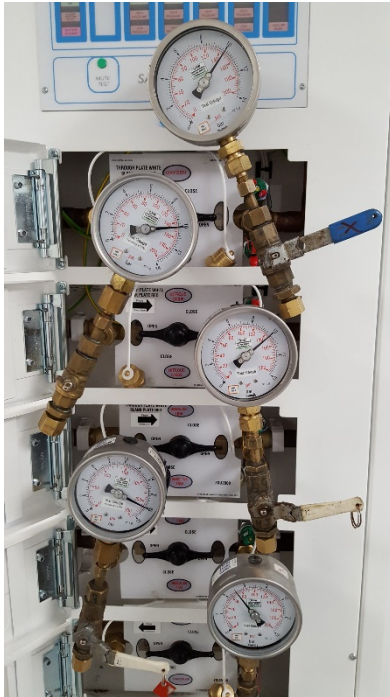
Policies and Procedures

It is essential that every site has a functional operational policy for medical gas pipeline systems as detailed in HTM02-01. The sample operational policy in the HTM forms a good basis but lacks the specific detail of YOUR systems and individual operational considerations. Our service is to prepare your operational policy to meet your needs and the needs of your stakeholders. Where required, we can also assist in the implementation of the policy. We will:

- Visit site to gather your local system details
- Meet with stakeholders to determine site responsibilities
- Review other documentation you have to ensure the policy fits
- Draft a policy and procedural document that incorporates emergency actions etc for you to review and have signed off
- Optional assistance presenting the policy to the stakeholders to assist implementation

Note: If you have a policy in place we can review and give recommendations or review and modify as required.

MGPS Consultancy



Additional consultancy for MGPS can be provided as required from time to time. This can cover a variety of requirements and situations. Additional support during busy times, support of new APs (MGPS), additional resource for the continuation of project deadlines, items may include but is not limited to the following:

- Additional on-site visits
- AP (MGPS) for new construction or additions
- Witnessing MGPS commissioning tests
- Additional AP (MGPS) assistance on site for large projects or shutdowns
- Systems and design verification
- Project management
- Project meeting attendance
- Medical gas committee meeting attendance
- Other medical gas consultancy as required

Cylinder Storage and Optimisation



Having the right level of cylinder is a fine balance between day to day use, emergency stock, cylinder safety and rental costs. Our cylinder optimisation service looks at all these aspects and gives recommendations to have the right stock, stored safely in the right place and have the right procedure in place to be able to react to emergency situations. We will look at the following elements:

- The level of cylinder usage
- The storage areas
- Ordering, administration and delivery
- Cylinder type, quantity and use on wards
- Cylinder safety, security and compliance of accommodation
- Cylinder storage and segregation
- Racking and supports

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