Piping & Instrumentation Diagrams are vital to a site's understanding of its assets. They offer a common language of which engineers, operators and maintenance staff alike can talk.

Management of Change is not effective without a way of setting out how the equipment is connected. P&IDs are also useful when replacing equipment, improving efficiency of an existing process, troubleshooting any problems, or for guiding the design of a new facility and identifying potential hazards or relief scenarios.

P&IDs are regarded by the HSE as master plant documents, so a robust system must be in place to keep them modernised. The main challenge is ensuring they are revised whenever modifications are made to the plant, as the P&IDs should always reflect the current design and operation.

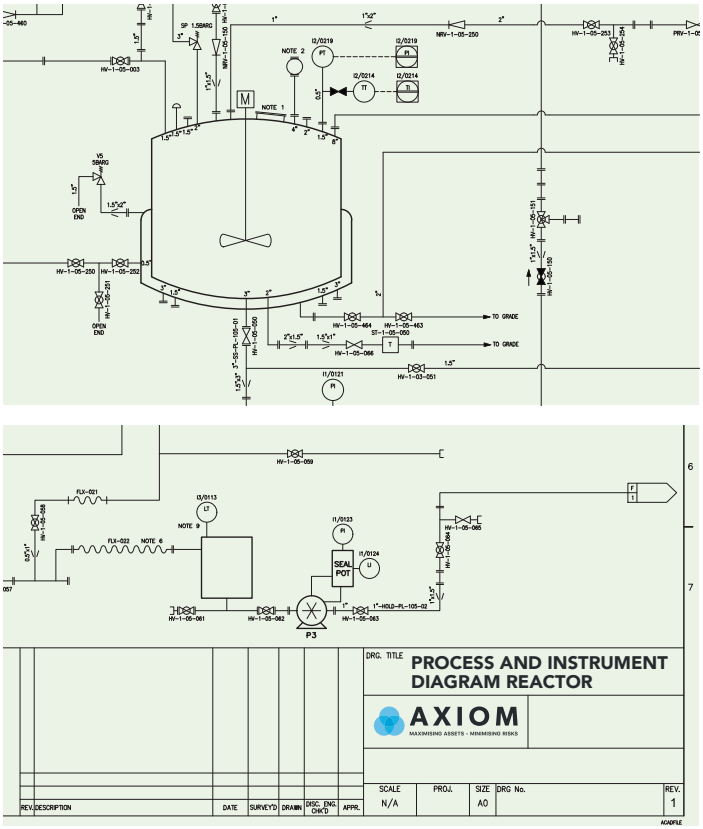
How can AXIOM help with this service?

AXIOM has a team of process engineers who can visit the site to conduct P&ID surveys, perform checks, and document plant processes in the form of Piping and Instrumentation Diagrams. The team has site experience across a wide range of industries including: Chemical, Pharmaceutical, Energy, Oil & Gas, and more. AXIOM are able to offer the following when it comes to P&IDs:

- Producing full site as-built P&IDs, including AutoCAD deliverables
- Checking and updating existing P&IDs
- Updating P&IDs for Management of Change including line-walking to verify changes
- Preparing P&IDs for hazard studies
- 3D site scans
- Asset registers such as line lists, equipment lists, instrument lists, and valve registers

Typically, AXIOM assigns a graduate process engineer to visit a site, conduct surveys and collect the necessary information. Upon completion of the survey, all notes and documentation are compiled for the CAD technician to develop the P&IDs and incorporate any required changes.

The returned P&IDs are then checked by a senior engineer before being issued to the client.



Benefits of Up-to-Date P&IDs

- **Improves Operational Efficiency:** Faster troubleshooting and smoother handovers boost operational efficiency.
- **Regulatory Compliance:** Improved Management of Change (MOC), smoother inspections, and clearer alignment with legal and audit requirements all contribute to regulatory compliance.
- **Enhances Safety and Reduces Risk:** Clear visibility of process equipment allows for safer maintenance and isolations, In the event of an emergency, well-documented processes can be understood more quickly, improving response times. Accurate drawings assist hazard studies and enable confident identification of potential risks, strengthening overall site safety.

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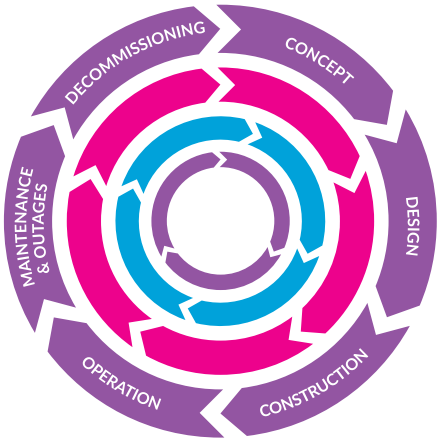
AXIOM

MAXIMISING ASSETS - MINIMISING RISKS



Supporting the Asset Life Cycle