

## Maintaining Current and Accurate Records

### Why Current Records Matter

Maintaining current and accurate records - PFDs, P&IDs, one-line electrical diagrams, piping drawings, general arrangements, and other related documents - is critical for manufacturers for several reasons:

#### **Safety**

Outdated documents can lead to unsafe work conditions, especially during maintenance, troubleshooting, or modifications.

#### **Regulatory Compliance**

Accurate records are often required to meet OSHA, PSM, EPA, NFPA, and other regulatory standards.

#### **Operational Efficiency**

Up-to-date drawings help plant personnel understand how systems function, reducing downtime during repairs or upgrades.

#### **Risk Management**


In emergencies, current diagrams are essential for fast, informed decisions to prevent environmental release, equipment damage, or injury.

#### **Planning and Expansion**

Accurate documentation is foundational for any future facility upgrades, system expansions, or process changes.

#### **Cost Savings**

Prevents costly rework or duplication of effort during design, construction, or maintenance.



## How a Professional Engineer can help

If records are missing or outdated, JDI can:

### **Conduct Field Verification**

Visit the site to validate existing systems, trace piping, wiring, and equipment layouts.

### **Create or Update Documents**

Develop accurate as-built, PFDs, P&IDs, and one-lines based on field data and best practices.

### **Identify Gaps and Risks**

Flag inconsistencies or unsafe conditions that could result from outdated information.

### **Support Modifications**

Provide stamped design documents for any upgrades, ensuring changes are fully integrated into updated records.

### **Facilitate Compliance**

Ensure that all drawings meet industry standards and support regulatory inspections or audits.

### **Identify ways to Increase Efficiency and Decrease Waste**

Streamlining processes, optimizing resource use, and uncovering cost-saving opportunities that reduce downtime and material waste.

### **Improve Reliability**

Recommend improvements based on observed conditions and missing documentation, contributing to a more maintainable, efficient facility.