



SMARTPLANT® SAFETY SOLUTIONS: SMARTPLANT P&ID ENGINEERING INTEGRITY

MAKE THE RIGHT DECISIONS EARLY

The next step in engineering leads to rule-based or knowledge-based designs. The majority of an engineer's time is spent looking for data and checking for correctness and consistency. These tasks can now be automated with SmartPlant P&ID Engineering Integrity.

The out-of-the-box product delivers more than 3,000 rules based on API 14C. These rules can be plugged into SmartPlant P&ID. No programming skills are needed to add or modify the rules. It would normally take an engineer about two weeks to create and implement these 3,000 rules in their system.

SmartPlant P&ID Engineering Integrity will check the P&ID against these safety and engineering practices and project standards. The product then automatically reports any areas of inconsistency. The rules engine can be extended with customers' rules on safety or any other engineering checks that are normally performed manually. This powerful solution helps you make the right decisions early in the process, producing significant savings in checking and late changes.

RETURN ON INVESTMENT

Performing manual checks at each project milestone is

time-consuming and prone to error. SmartPlant P&ID Engineering Integrity delivers consistency. Faster releases mean faster project execution. The solution offers an excellent return on investment in comparison to the manual approach. In addition to these cost savings, the solution delivers the significant benefit of leveraging intelligent P&ID capabilities beyond reports and integration.

CUSTOMIZABLE RULES

A customizable rules set can be easily extended to automatically validate the P&ID for safety and engineering practices before a HAZOP will be performed or before it is released for client review or construction. You can extend and/or customize the rules and check for any engineering practice, not just safety practices.

PART OF SMARTPLANT SAFETY SOLUTIONS

SmartPlant P&ID Engineering Integrity is a member of the Intergraph SmartPlant Safety Solutions. Purchase the products which fit your workflow – each is available separately:

- SmartPlant Process Safety.
- SmartPlant P&ID Engineering Integrity.
- SmartPlant Action Management.

ABOUT INTERGRAPH

Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph's industry-specific software to organize vast amounts of data to make processes and infrastructure better, safer and smarter. The company's software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph PP&M provides enterprise engineering software for the design, construction, operation and data management of plants, ships and offshore facilities. Intergraph SG&I provides geospatially powered solutions, including ERDAS

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