

SmartPlant® Enterprise for Power



YOUR BUSINESS PROCESS INTEGRATION PLATFORM

Utilities face several pressing business drivers, such as:

- Plant reliability
- Regulatory compliance – Environmental, health, and safety
- Validation, transformation, and loading – Data handover and project management
- Plant management to keep the plant in configuration
- Visibility
- Change management

As a market leader, Intergraph® knows the power industry and has created a solution to address your business drivers. SmartPlant® Enterprise for Power meets the needs of the power generation industry.

BENEFIT FROM A BUSINESS PROCESS INTEGRATION PLATFORM

Choose Intergraph's business process integration platform to augment your existing business systems, including:

- SAP®
- Indus PassPort
- FileNet

SmartPlant Enterprise for Power offers a data portal to view all of your other systems' data. Intergraph offers a robust portal in which you can query your systems and discover technical information about your data set. Simultaneously view information from your:

- Reliability system
- Maintenance system
- Design system

WHY CHOOSE INTERGRAPH?

- Nine out of the top 10 reactor vendors in the world choose Intergraph technology to design their next-generation reactors
- Intergraph has supplied CAD and information management technology to the power industry for more than 25 years
- In addition to serving the power industry and many other industries that face the same constraints and drivers, more than \$350 billion of plants have been designed around the world with Intergraph technology

BUSINESS BENEFITS

Choose Intergraph's SmartPlant Enterprise for Power and benefit from:

- Management of change and configuration management
- Regulatory compliance
- Cross-disciplinary integration
- Data handover

TAKE ADVANTAGE OF YOUR DATA ASSET

Engineering data is a strategic asset. SmartPlant Enterprise for Power creates, captures, and maintains engineering information and knowledge throughout the design and operation life cycle of your plant. This enables your company to take advantage of its greatest corporate asset – engineering data – by making it available across all phases of the project and plant life cycle.

Tremendous value is created during the design and construction of a facility. Many things change during this time as well. Capturing as much of that data as possible will prove to be a great asset for you.

MANAGEMENT OF CHANGE AND CONFIGURATION MANAGEMENT

SmartPlant Enterprise for Power offers a powerful data hub. This hub can be seen as the “glue” that holds each of your data environments together.

The most dynamic part of your plant is your technical data. The way that you procure something doesn't change very much but the operating conditions of your plant, the manufacture of the pump, or the diameter of that pipe will definitely change over time. SmartPlant Enterprise for Power manages this data so you can stay on top of changes.

It can be difficult to manage change and keep a paper trail so that you can withstand regulatory scrutiny. Intergraph can help you begin to manage the configuration of your data very early in the project. This minimizes your handover costs and speeds the time to beginning plant operations. This is because you don't have to check the information and manually input it into another system.

REGULATORY COMPLIANCE

Intergraph gives you the ability to build in workflows for the way your information is changed and managed. This workflow engine helps keep your processes transparent. Take advantage of data accuracy, which is crucial for regulatory compliance.

Intergraph offers a comprehensive solution capable of managing data import from multiple sources. Its solution for validation, transformation,

and loading submits imported data to rigorous quality control before data extraction for loading into target systems, whether Intergraph solutions or third-party applications. This helps ensure you comply with regulations.

CROSS-DISCIPLINARY INTEGRATION

SmartPlant Enterprise for Power enables continuity of your system data all the way through from design to operations. You may not currently use all of your technical information in your procurement system or your maintenance management system. Intergraph can help you share that tightly managed technical data with your procurement system, maintenance management system, and reliability system.

Save money by only inputting data once. All data is owned by the database. If a change is made in the database, it is automatically updated in other areas.

DATA HANDOVER

Data handover is the prerequisite for management of change and configuration management, regulatory compliance, and cross-disciplinary integration. Without effective data handover, you cannot achieve any of these business benefits. The handover of data from CAPEX projects and plant turnarounds is a formidable task. It can involve the transfer of thousands of documents and millions of individual data items from suppliers and contractors to the owner operator.

The challenge is how to quickly and efficiently perform the following tasks:

- Check the quality of information being transferred
- Keep records of which checks have been performed and the results obtained
- Load approved information into target systems for operations

On large CAPEX projects, it is not unusual for this process to cost in excess of US\$15 million and take up to a year. SmartPlant Enterprise for Power promotes efficient data handover. In addition, Intergraph enables the reuse of data for follow-up projects whether in the existing plant or proposed for a new plant.

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 into understandable visual representations and actionable intelligence. Intergraph'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, and operation of plants, ships, and offshore facilities. Intergraph SG&I provides geospatially powered solutions to the defense and intelligence, public safety and security, government, transportation, photogrammetry, utilities, and communications industries.

For more information, visit www.intergraph.com.

