



SMARTPLANT® MATERIALS

TOTAL MATERIALS MANAGEMENT AND SUBCONTRACT MANAGEMENT FOR PLANTS AND PROJECTS

SmartPlant® Materials is an integrated life-cycle material and supply chain subcontracting management solution. It provides a common collaboration platform and project workbench for all partners in any engineering, procurement, and construction (EPC) project supply chain.

SmartPlant Materials helps to lower project costs, compress schedules, improve risk management, and enable companies to act globally to maintain advantage in a highly complex, international, and competitive market. From initial cost estimation through the supply chain to onsite management, SmartPlant Materials handles materials standardization, bills of materials and requisitions, procurement functions, fabrication tracking, and site functions, such as warehousing and disposition. Comprehensive subcontracting functionality from planning to progress management is now available.

The only complete, commercially available materials management and subcontracting solution, SmartPlant Materials offers a common platform for all material and subcontract-related activities. SmartPlant Materials uses the latest information technology to provide you with a high degree of flexibility, scalability, and easy integration into existing systems and workflows. Each department or function can simply access whatever materials data is needed for a specific material-related task, in the format most appropriate to that task.

RESPONDING TO BUSINESS DRIVERS

Modular, open, and fully Web-enabled, SmartPlant Materials responds to owner operator (O/O) and EPC business drivers by:

- Lowering total project and installed costs by reducing labor hours and eliminating materials surpluses and shortages.
- Reducing plant schedule through integration with design and cost systems.

- Increasing competitiveness through minimized project bidding time, compressed schedules, and reduced labor hours – including administration, engineering, procurement, supply chain management, and construction.
- Improving risk management through better overall project performance, project cash flow management, and true management by exception.
- Enabling global project worksharing and execution, using correct, complete, and consistent data.
- Enabling data reuse throughout the plant life cycle, including plant operations and maintenance, and refurbishment.
- Managing subcontracts via a portal from the planning phase to tracking each progress step of a subcontract.

Bill of Materials and Requisitions

SmartPlant Materials supports a bill of materials (BOM) for bulk or itemized materials from estimate and basic (front-end) design, through detailed design, to the as-built plant. BOMs are typically loaded from engineering systems (2D or 3D) and then verified in SmartPlant Materials for completeness. To prepare for and simplify purchasing, BOMs are grouped into requisitions by a rule-driven process. Documents, vendor data requirements, and more can be attached before approval and releasing the Requisition to Procurement.

Supplier Management

SmartPlant Materials offers a Supplier Management solution, an integral part of the Material Supply Chain Management Module. You can access historical information on supplier performance during previous projects, define and assign criteria for selecting suppliers based on predetermined qualifications and past performance, and maintain supplier history/details/products and vendor history/ratings. The supplier can register and maintain information via the SmartPlant Materials Portal. This reduces the amount of EPC or contractor effort required for this kind of maintenance work.

Inquiry Cycle and Purchasing

SmartPlant Materials provides a central location for the storage of all inquiry and procurement data, and enables effective management of the data throughout the inquiry cycle and all procurement activities. You can greatly reduce the inquiry cycle time by involving the suppliers directly in the process. You can give your suppliers secure online access through the SmartPlant Materials Portal.

Expediting, Inspection, and Logistics

SmartPlant Materials enables continual reuse of data from one department to another, and ensures that data are reliably maintained as subsequent revisions are issued. The Expediting, Inspection & Logistics Module can be accessed remotely through the Internet by third parties such as suppliers, freight forwarders, or inspectors.

Progress Measurement

SmartPlant Materials has the ability to track account codes or control accounts to the material line item level. This enables you to capture and report procurement activities performed at the line item by control account or account code.

Inventory and Warehouse Management

Data created during SmartPlant Materials Expediting simplifies and shortens the materials receiving process, whether in geographically distributed job sites or warehouses. Material site data collection can be automated for site receiving, inventory reconciliation, material issuing and more. You can easily create over, short, and damage (OSD) reports. Reviewing materials issued to sub-contractors, based on drawings or work packages, saves you time and money.

Construction Planning

SmartPlant Materials enables site management to optimize capacity planning for construction personnel versus predicted material availability at any given point in time. This creates a massive reduction in risk for the contractor, as well as dramatically improved competitiveness.

Subcontract Management

Subcontracting functionality is completely embedded into SmartPlant Materials. It covers planning, an eSupplier portal, Request for Quotation (RFQ) to award, and all post-agreement activities, as well as progress control for each subcontract. Using the subcontract strategy enables you to seamlessly continue with requisitions and inquiry, with the solution providing all features required for subcontracting. All subcontracts are handled in a single place which fully integrates all disciplines and departments. This enables teams to collaborate more effectively across the engineering, procurement, and construction life cycle.

Portal

Suppliers and subcontractors can interact seamlessly through the SmartPlant Materials Portal. Any company can register remotely into the system. Answering questions compiled specifically for the type of business offered enables an organization to more efficiently select business partners. SmartPlant Materials Portal covers everything required for the registration and approval of companies, including RFQ, bid and document submittals, awarding, and day-to-day subcontract administration. The Portal also covers change management for subcontracts, from a change order request to the actual change order.

Business Intelligence Reporting

SmartPlant Materials Business Intelligence Reporting is a state-of-the-art Web analysis tool for the entire material supply chain. Out-of-the-box reports provide visibility into bottlenecks in your materials delivery, information on your top suppliers, and your own organization's status presented interactively via progress and shipment curves. Drill-down functionality helps you better understand the current situation and make faster, more informed decisions. Interactive reports enable each user to create ad hoc charts, curves, or other types of analyses to find answers to specific questions.

ABOUT INTERGRAPH

Intergraph helps the world work smarter. The company's software and solutions improve the lives of millions of people through better facilities, safer communities, and more reliable operations.

Intergraph Process, Power & Marine (PP&M) is the world's leading provider of enterprise engineering software enabling smarter design and operation of plants, ships, and offshore facilities. Intergraph Security, Government & Infrastructure (SG&I) is the leader in smart solutions for

emergency response, utilities, transportation, and other global challenges. For more information, visit www.intergraph.com.

Intergraph is part of Hexagon (Nasdaq Stockholm: HEXA B; hexagon.com), a leading global provider of information technologies that drive quality and productivity improvements across geospatial and industrial enterprise applications.

