



PROFILE:

Name – Corrigan Company
Web site – www.corriganco.com

For the last 109 years, Corrigan Company has built a reputation as a full-service mechanical contractor, specializing in the delivery of quality results on jobs of all sizes.

Anheuser-Busch, ADM, Boeing, Chrysler, Ford, GM, Granite City Steel, Lever Brothers, Monsanto, Mallinckrodt, AmerenUE, Southwestern Bell, Met Life & Ritz Carlton – these are just a few of the thousands of customers that have experienced the difference of quality jobs completed on time and within budget by Corrigan Company.

KEY BENEFITS:

- Significantly faster and more accurate generation of shop fabrication spool drawings
- BOMs produced by SmartPlant® Spoolgen® have proven to be very helpful in the ordering process and in separating field material from shop material

PRODUCTS USED:

SmartPlant Spoolgen

Corrigan Company Fabricates 11,000 Feet of Pipe for Brewery with SmartPlant® Spoolgen®

Solution transforms workflow with significantly faster and more accurate shop fabrication spool drawings

THE CHALLENGE

In 1896, John F. Corrigan founded his neighborhood plumbing shop, Corrigan Company, in St. Louis, Missouri. His guiding principle was to provide customers with quality work carried out by skilled craftsmen within a designated time at a fair and reasonable price.

Today, Corrigan Company is one of Missouri’s leading full-service mechanical contractors specializing in plumbing, HVAC, refrigeration, and process piping. Its steadfast commitment to exceptional performance on challenging, quick-turn-around projects of every size has helped propel the firm to high levels of experience and capability. Corrigan addresses a wide range of markets and industries, including chemical, food, manufacturing, municipal, power, health, and education.

Fabricating complex piping systems for process plants is one of Corrigan’s specialties. Whenever a new project is won, a key component of the construction process is generating fabrication spool drawings for the workshop.

“We used to prepare these drawings by hand or by using AutoCAD,” said Dan Abbott, vice president of Corrigan’s Design Engineering Department. “Electronic data was not available at the time from design engineers. We had to obtain dimensioned vendor drawings for every component on the project to prepare shop spool drawings. It was an arduous and time-consuming process to say the least.”

THE PROJECT OBJECTIVES:

- Prepare drawings using the 3D method with field scanning of existing conditions
- Implement a faster, more accurate process of generating shop fabrication spool drawings using SmartPlant Spoolgen
- Enable the automatic production of bills of materials (BOMs) to assist in ordering and sorting field and shop material

THE SOLUTION

In 2005, Corrigan won a contract to assist with the construction of a new brewery in St. Louis for Anheuser Busch, one of the largest beverage producers in the world.

“Anheuser Busch made the decision to prepare drawings using the 3D method with field scanning of existing conditions,” recounts Dan. “The job was bid with instructions to the contractors to use SmartPlant Review. After Corrigan was selected as the lowest bidder, Anheuser Busch suggested we use SmartPlant Spoolgen to produce the spool drawings for the workshop. It was a tool their contractors had successfully used before on other major construction projects.”

URS Washington Division, the engineering, procurement, and construction (EPC) firm on this project, supplied piping data files in the form of IDFs. Corrigan used SmartPlant Spoolgen and these files to print out a construction drawing of each line. The construction drawing was then divided into spools using SmartPlant Review to determine the best position for field welds and field fit welds.

The marked-up construction drawing was returned to the Corrigan Pipe Detailer, who used SmartPlant Spoolgen to produce the final shop pipe spools. The field engineer shop then gave spools a final review prior to submitting them to the fabrication shop. Next, the pipefitters in the field received the construction drawing and copies of the pipe spool drawings, along with color snapshots from the 3D model, as a guide for installing the pipe spools.

SmartPlant Spoolgen was used to fabricate more than 11,000 feet of above-ground and underground piping for carbon dioxide transfer and utility pipe at Anheuser Busch’s St. Louis facility.

“SmartPlant Spoolgen has transformed our workflow,” said Abbott. “It is a significantly faster and more accurate process

of generating shop fabrication spool drawings than using AutoCAD or manual drawings. The bills of materials SmartPlant Spoolgen produces are very helpful in ordering and separating out field material from shop material.”

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 technologies, to the public safety and security, defense and intelligence, government, transportation, photogrammetry, and utilities and communications industries. Intergraph Government Solutions (IGS) is a wholly owned subsidiary of Intergraph Corporation responsible for the SG&I U.S. federal and classified business.

Intergraph is a wholly owned subsidiary of Hexagon AB, (Nordic exchange: HEXA B). For more information, visit www.intergraph.com and www.hexagon.com.

