

EPC provides multiple disciplines for Gulf accommodation modules

AEC Design Group

Many engineering, procurement and construction firms (EPCs) have found it difficult to find an AutoCAD-based, specification-driven CAD system that can handle a full range of design and fabrication requirements for complex projects.

The requirements for this type of project can include process piping, commercial pip-

ing/plumbing, HVAC, electrical, structural and other disciplines

In the case of two accommodation modules for platforms in the Gulf of Mexico, an EPC found that CADPIPE could meet this challenge. Each accommodation module needed to serve 250 people. The project involved the design, fabrication and installa-

tion of process piping, commercial piping/plumbing and HVAC.

The design phase of the project was completed in the United Kingdom in 10 months using nine designers. The HVAC portion required 1,000 hours from one designer to produce the installation and fabrication drawings. An added benefit from using the CADPIPE



In the case of two accommodation modules for platforms in the Gulf of Mexico, an EPC found that CADPIPE could meet the challenge of multiple disciplines.

software was the ability to download the fabrication information from the 3-D model to plasma-cutting tables and estimating software.

The piping portion of the project required eight designers. Two of the designers were assigned to the commercial piping/plumbing and six were assigned to the process piping. From the two 3-D models more than 1,500 isometric drawings were automatically generated. This included the automatic dimensioning, automatic tagging and automatic bill of materials.

The ability to manually edit the isometric drawings and then automatically update the 3-D models streamlined the design process and eliminated the need to manually edit the 3-D models. Over the 10 months, the project averaged less than two hours total time per finished isometric drawing.

The fabrication of the project will be done in Brownsville, Texas, at the end of first quarter 2006. It is estimated that this phase of the project will require one designer for six weeks for field edits of Isometric drawings. As the iso-



The project involved the design, fabrication and installation of process piping, commercial piping/plumbing and HVAC.

metrics are changed to meet field requirements, the 3-D models will automatically be updated to maintain the models in as-built status.

After the completion of the project, the ArtrA 3-D Asset Management software will be implemented. This software attaches any documentation or live data to the items in the model. This information can then be extensively searched or sorted for maintenance, health and safety, corrosion monitoring and other needs for platform operations.

ArtrA does not require any CAD software to minimize initial investment, training and long-term operation costs.

AEC schedules regular seminars in the Gulf Coast Region for CAD Independent Coordination/Review and 3-D Asset Management.

For more information, call (301) 840-6938, (888) 239-2004, Ext. 243 or e-mail jwinans@cadpipe.com. □

AEC Design Group
Process Piping Solutions Since 1986

ArtrA

Project Coordination & Review
3D Asset Management

Walk around the 3D model of your plant without having to use any CAD software. Use this model to access, view and sort all your documentation or live data quickly and easily.

- Corrosion Monitoring
- Data Logging & Analysis
- Health & Safety
- Scaffolding Management
- Inspection & Maintenance
- Commissioning & Operations
- Fabrication
- Many Other Applications

CADPIPE 3D DESIGN

CADPIPE

AutoCAD Based
Process Piping
Design Software

CADPIPE ISO

Other CADPIPE Products include P&ID, HVAC, Electrical, and Hanger.

www.cadpipe.com - 888-239-9004 ext 243 - sales@cadpipe.com