



Quantapoint Case Study

ChevronTexaco FCC Unit Revamp – Refining

California

Situation

Production problems necessitated significant modifications to an existing FCC unit. The project required that the FCC reactor and regenerator be cut and reoriented for more-efficient operation.

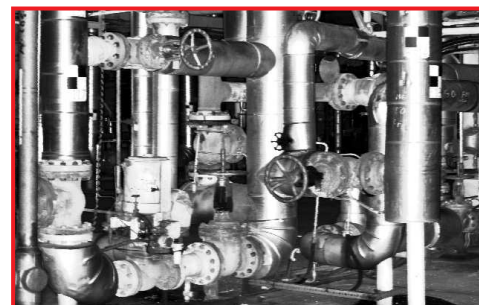


Challenge

The facility lacked accurate and current existing condition documentation. The goal was to select a work process that provided a highly accurate and detailed 3D model in a fraction of the time required by traditional surveying techniques. It was further required that 3D laser scanning would generate a model that would not require a costly and time-consuming re-modeling effort.

Solution

The client selected Quantapoint to perform laser scanning to generate the 3D data needed to execute the project. Quantapoint's 3D laser scanned data was used to support preliminary and detailed engineering design.



*Quantapoint 2D Laser Scan (Not a Picture)
Each Point is a Measurement*

Results

A few unique aspects about Quantapoint's contributions to this project include the following:

- ❖ Quantapoint performed laser scanning on multiple levels of the FCC and regenerator units. Images were generated from at-grade locations to top of unit elevations.
- ❖ Generated approximately 100 scans and completed documentation of the facility in a fraction of time required by traditional surveying methods
- ❖ Data generated was shared by multiple offices located in California, Texas and Calgary, Alberta, Canada.