

# Specialty Chemical (Petrochemicals)

## R&D PILOT PLANT

Client - BP

Project Location – Decatur, Alabama USA

BP-Decatur ( 2 Foot Filter Column Project ) entails the design of a pilot process plant to filter incoming mixed xylene streams to the required quality and consistency.

Integrity Engineers was tasked with the instrumentation design and specification for the project. Instrument design activities were as follows: sizing, selection of control valves, flow(Coriolis flowmeters), level, and pressure instrumentation for the project. Additional design activities were performed in the scenario evaluation and sizing of pressure safety valves, rupture discs, and hydraulic evaluation of pressure relief valve inlet and outlet header piping. Integrity's custom pressure relief valve and valve discharge header scenario evaluation software, PresValv™ was used in the evaluation of process pressure relief valve sizing and scenario requirements. Instrument data sheets and vendor request for quotation were completed for all process instrumentation. Project was completed on fast track schedule.



## Integrity Engineers and Constructors, LLC

Primary Business Address  
12060 County Line Road,  
Suite J-278  
Madison, AL 35758  
USA

Phone: 256-270-0520

Fax: 866-677-1899

E-mail: [info@integrity-engr.com](mailto:info@integrity-engr.com)



**INTEGRITY**  
ENGINEERS & CONSTRUCTORS, LLC  
*Creating smart solutions with innovative ideas*