

ANTOINE EL BODON

PROCESS ENGINEER

Accomplished Chemical Engineer with more than 5 years of process design experience in the Oil and Gas industry. I am driven and proactive Process Engineer who is committed to forward planning and goal-oriented work.

While working with Wood, I have had the opportunity to develop my skills and knowledge of large-scale sour gas production facilities.

AREAS OF EXPERTISE

Aspen Hysys	Aspen Flarenet	Pipesim	Pipenet	AutoCAD
Bluebeam Revu	MS Excel	MS Word	Veridian	Simulation

PROFESSIONAL EXPERIENCE

Process Engineer

Wood - Abu Dhabi / Dubai | February 2019 - Present

- Performed emergency and manual depressurization calculations using Hysys Depressuring Tool along with Aspen Flare System Analyzer and generated a depressurization report in line with international standards (API / Shell).
- Performed Pressure Safety Valve (PSV) sizing calculations for vapor, liquid, and two-phase services.
- Performed gas and liquid steady state hydraulic calculation using process simulation tools (Hysys, Pipesim, Pipenet) and generated a hydraulic study report in line with international standards (API / Shell).
- Performed liquid surge analysis calculation using Pipenet and generated a surge analysis study report.
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- Originated different instrument process datasheets (control valve, actuated valve, pressure control valve).
- Originated and checked Process Flow Diagrams (PFD's), Heat and Mass Balance (H&MB's), Piping and Instrumentation Diagrams (P&ID's), and Process Safeguarding Flow Diagrams (PSFD's).
- Participated in Hazard Identification (HAZID), Hazard and Operability (HAZOP), and Safety Integrity Level (SIL) workshops.
- Originated documents, such as Basis of Design, Safeguarding Philosophy, Safeguarding Memorandum, Cause and Effect (C&E), and Process Description.
- Worked on several projects involving gas dehydration systems, gas compression systems (400 MMscfd capacity), pumped systems, and pipeline network (48-inch).
- Communicated effectively with the client and other engineering disciplines where project interface is required.
- Carried out several process engineering design activities, following client and company standards to schedule and budget as advised by the Process Lead Engineer and Project Manager.
- Performed flare adequacy calculations along with piping vibration screening due to Flow Induced Vibration (FIV) and Acoustic Induced Vibration (AIV).
- Performed separator sizing calculation (90 MMscfd gas handling capacity).

LANGUAGES

English	Arabic
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