



River City Engineering – Classroom Style Operator Training

Entire Plant PFD/P&ID: Training Agenda

Course Total: 5 days

- 1. Overview** **4 hours**
 - a. Background
 - i. Justification
 - ii. Design Basis
 - iii. Design Philosophies
 - b. Safety
 - i. Safety Equipment Location Plan
 - ii. Process Fluids
 - iii. Safety Critical Highlights
 - c. Overview
 - i. Block Flow Diagrams
 - ii. Plot Plan – Equipment Locations
 - iii. Plot Plan – Flow paths
 - iv. Equipment List

- 2. Process Flow Diagrams – PFDs** **4 hours**

The following will be reviewed per PFD, if applicable:

 - a. Flow paths
 - b. Heat and Material Balances
 - c. Discussion of reasoning behind optimal setpoints
 - d. Individual system controls

The following will be reviewed across all PFDs:

 - e. Overall plant control scheme

- 3. Piping and Instrumentation Diagrams – P&IDs** **4 days**

The following will be reviewed per P&ID as applicable:

 - a. Flow paths
 - b. Metallurgy discussion
 - c. Safety critical controls and devices
 - d. Capacity and optimization
 - e. Detailed plant controls – with Cause and Effects
 - f. Review of key measurements
 - g. Review of key operating parameters