

Control System: Functional Desc. P-197

P-Engineering creates Functional Description (FD) for various of Unit Process Operation as Functional Units. These FD can be the basis for both programming of the control system and creating the test procedures for the commissioning process. We create FD for both basic Building Utilities as well as more advanced Pharma Utilities:

- Heating / Cooling
- Indoor Climate Control
- Water Utility - Cold / Hot
- Water HPW / WFI
- Buffer Preparation
- CIP
- Separation & Sedimentation
- Neutralisation & Kill
- Fermentation
- Steam – Raw and Clean

The Functional descriptions will describe e.g.,

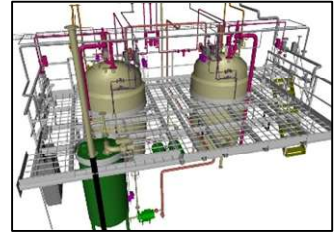
- Operation Principles including Start-up and Shutdown
- Safety Procedures
- Control Loop Operations
- On/off Operations
- Interlocks internally and with related Functional Unit
- SCADA Specification
 - User Interface
 - Measurement Logging
 - Alarms and Alarms handling
- PLC Standardization

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*Example from the top:
Heating, kill, decoloring of
lactose, ethanol distillation,
and heating unit.*