

Appendix

A

A-1

Process Flow Diagrams Using VISIO 2002 Software

Figure 1.12b. Process Flow diagram (Feed & Fuel Desulfurization Section)

Figure 1-12C. Typical process flow diagram for the production of Methyl Tertiary Butyl Ether (MTBE)

Figure 1-14. Piping & Instrumentation diagram for Ammonia plant CO₂ removal.

Figure 1-15. Piping & Instrumentation diagram: Ammonia Synthesis & Refrigeration Unit
(2)

Figure 1-15a. P & ID Unit – Sect. 2000 (Urea) condensate recovery system.

Figure 1-17. Isometric drawing for liquid ammonia line (4LA-10033-B1-N)

Figure 1-17a. Isometric drawing for liquid ammonia line (6LA-10034-B1-C40)

Figure 1-17b. Equipment drawing for refrigerant compressor 2nd stage intercooler A-EA711
(137-C)

A-2.

Process Data Sheets.

- 1 Air cooled heat exchanger process data sheet
- 2 Centrifugal pump schedule: driver
- 3 Centrifugal pump schedule: pump
- 4 Centrifugal pump summary
- 5 Column schedule
6. Construction Commissioning Start-up Checklist
- 7 Deaerator process data sheet: Deaerator water storage tank
- 8 Deaerator process data sheet: Deaerator head
- 9 Drum process data sheet
- 10 Effluent schedule
- 11 Equilibrium flash calculation
- 12 Fabricated equipment schedule
- 13 Fan/Compressor process duty specification
- 14 Fractionator calculation summary
- 15 General services and utilities checklist
- 16 Hazardous chemical and conditions schedule
- 17 Heat and mass balances
- 18 Heat exchanger rating sheet
- 19 Hydrocarbon dew point calculation
- 20 Line list schedule
- 21 Line schedule
- 22 Line schedule sheet
- 23 Line summary table
- 24 Mass balance
- 25 Mechanical equipment schedule
- 26 Pipe line list
- 27 Pipe list
- 28 Piping process conditions summary
- 29 Plate heat exchanger data sheet
- 30 Calculation of pressure drop in fixed catalyst beds
- 31 Process engineering job analysis summary
- 32 Pump calculation sheet
- 33 Pump schedule
- 34 Relief device philosophy sheet
- 35 Tank and vessel agitator data sheet

36	Tank process data sheet
37	Tank schedule
38	Tie – in – schedule
39	Tower process data sheet
40	Tray loading summary
41	Trip schedule
42	Utility summary sheet
43	Vessel and tank schedule
44	Vessel and tank summary: driver
45	Vessel schedule
46	Water analysis sheet