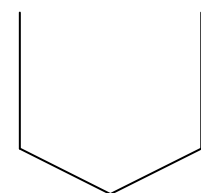


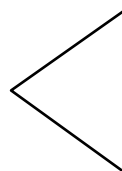
SODIUM CALCINER



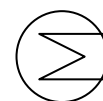
Solids Storage Bin



Flash Drum



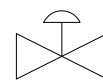
Divider



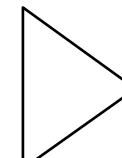
Cooler



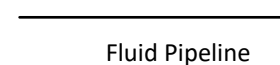
Reactor



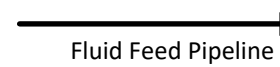
Feed Control Valve



Fluids Mixer



Fluid Pipeline



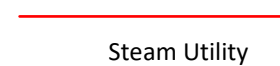
Fluid Feed Pipeline



Solids Conveyor



Cooling Water Utility



Steam Utility

Notes:

- BIN-2 stores the finished sodium carbonate product.
- Reactor R-5 is a Direct Separation Reactor.
- Detailed process control and instrumentation omitted at present.
- Detailed heat integration omitted at present.
- Steam utility assumed to come from an on-site boiler.