

PLANT DESIGN CONSISTS OF:

0. Critical Review of Idea that there should be ANY Process?
Is there an ECONOMIC OPPORTUNITY?
1. **Process Design.**
2. Equipment Selection and/or Design.
3. Building and Structural Design.
4. Plant Layout and Piping.
5. Economic Evaluation.
6. Operating Conditions and Procedures.

PROCESS DESIGN CONSISTS OF:

1. Selection of the *BEST* Process.
2. Development of a process flow diagram;
includes all major process streams and equipment items.
3. Written description of the process.
4. Tabulation of design basis and sources of design data.
5. Determination of all process temperatures, pressures,
concentrations, reaction times, etc.
6. Complete material and energy balances around each major
operation or item of equipment.
7. Overall sizing of major items of equipment.
8. Selection of materials of construction.
9. Selection of process control methods and instrumentation.

Commercial Decisions are ultimately based on profitability improvement.

Corporate Economic Goal: **Maximization of Profits with Minimization of Risks**

*"Profit is all that counts.
Everything else is baloney."*