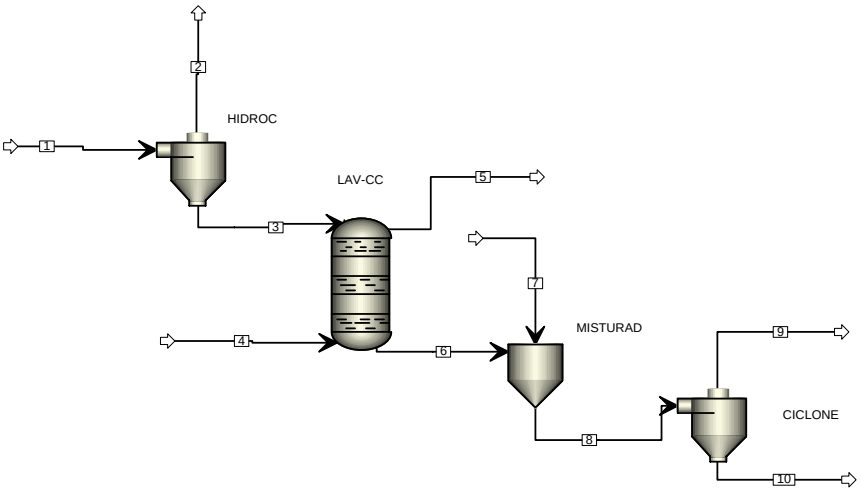
Exemplos de aplicação do Simulador de Processos ASPEN PLUS

V. Operações sólido – fluido

Plano de resolução

⇨ Unidades — General metric

Run Type — **Flowsheet** ⇨



⇨ Data Menu — Setup — Título: SECADOR — Stream class **MIXNCPSD** (ver descrição)

⇨ Components — POLIMERO: **Nonconventional**
ACET, ÁGUA e N2: Conventional

⇨ Properties — Specifications — Método de cálculo: **NRTL** (Property method) (ver descrição)

Advanced — NC-Props — **ENTHGEN** **DNSTYGEN** — **GENANAL** (ver descrição)

Parameters — Pure comp: New – NC1 — **DENGEN** : 80 lb/cuft
HCGEN : 0,45 cal/gm-K

⇨ Streams — Substreams:
MIXED: ACET
NCPSD: POLIM — **PSD** (fracção 10: branco) — **Component Attr.:** Elem1 - Value 100 (%)

⇨ Blocks
HIDROC - **Hycyc** — Calculation: **Design** — Parâmetros: 100 mu, etc.

Gabriela Bernardo Gil – 1999 / 2003
rev. Jorge Vasconcelos - 2006

⇨ Streams — New: 4 - ÁGUA

⇨ Blocks
LAV-CC - **CCD**

- Specifications — Streams – definir em Flowsheet
  3 – stage 1 under; 4 – stage 3 over
  5 – stage 1 over; 6 – stage 3 under
- **Flowsheeting Options** — **Design Specification**
  - New ID **DS1**
  - Define
    New Var. – **Q5** (ACET)
    New Var. – **Q3** (ACET)
  - Spec: **Q5/Q3**
    target: 0,985 ± 0,0005
  - Vary : **Q4** (AGUA)
    30000-50000 kg/h

⇨ Streams — New: 7 - AZOTO

⇨ Blocks
MISTURA - **Mixer**

- Specifications
- **Model Analysis Tools** — **Sensitivity**
  - New ID **S-1**
  - Define
    Stream Var. – **LF8** (LFR)
  - Vary: **Q7** (N2) kg/h
    100000-200000 – Incr. 5000
  - Tabulate - Column 2: LF8*1000
    Plot – X=Q7 ; Y=LF8*1000

⇨ Blocks
CICLONE - **Cyclone** — Specifications:
Design, Medium Eff.
Parameters — Streams
(Flowsheet)