



After Advanced Control

**Product Solids Control** ~ Product density variability has been reduced from 2.5% to 0.3%

**Production Rate Control and Optimization** ~ The Evaporator set throughput has been increased by about 2.5 l/s (6-8%).

**Environmental Constraint Handling** ~ Before MPC the maximum period before diversion was 3 days; now rarely is required.

**Consistent operation**

MEE\_MPCMPC-PRO1.mpcpp - MPC Operate Pro

File View Trend Optimizer Help

Contents of 'MEE\_MPC/MPC-PRO1 Trend1'

Trend1 Trend2 Trend3 Trend4 Trend5 Trend6 Trend7 Trend8

**Trend1**

25 Wed Feb 2004

Parameter Reference	Descriptor	Value	Units	Timestamp
MEE_MPC/MPC-PRO1/PROC_OUT2.CV	WBL Flow	309.93	t/h	2/25/2004 2:59:45 PM
* MEE_MPC/MPC-PRO1/PROC_OUT1.CV	Product Density	48.87	% sol/wt	2/25/2004 2:59:45 PM
MEE_MPC/MPC-PRO1/PROC_IN3.CV	#1 MEE Stm Pres	321.81	kPag	2/25/2004 2:59:45 PM
MEE_MPC/MPC-PRO1/PROC_IN8.CV	Soap Skimmer Effect	-0.66	%	2/25/2004 2:59:45 PM
MEE_MPC/MPC-PRO1/PROC_OUT3.CV	Comb Cond uS	30.44	µS	2/25/2004 2:59:45 PM
MEE_MPC/MPC-PRO1/PROC_OUT6.CV	#1 Effect BPR	7.55	°C	2/25/2004 2:59:45 PM

WBL Flow

307.1 t/h

500.0

Conn Block

305.0

CAS

0.0 Not Limited

Controlled

- Product Den SP  49.3 % sol/wt
- WBL Flow SP  307.1 t/h

Manipulated

- Condenser Temp  39.5 °C
- WBL Density  15.0 % sol/wt
- #1 MEE Stm Pres  314.9 kPag
- WBL Flow  307.4 t/h

Constraint

- Comb Cond uS  30.5 µS
- Cont Cond uS  181.5 µS
- Foul Cond uS  810.3 µS
- #1 Effect BPR  7.7 °C

Disturbance

- WBL Temp  84.3 °C
- WBL Dens  15.1 % sol/wt
- Vacuum Pres  27.3 kPaa
- Soap Skimmer Effed  0.0 %

MEE\_MPC/MPC-PRO1/PROC\_OUT2.CV: 309.784

History: PG\_STEAMAPP

Start FlexLock Exploring DeltaV Control Studio - [...] F:\ MEE\_MPCMPC-... DeltaV Neural - M... 4:37 PM