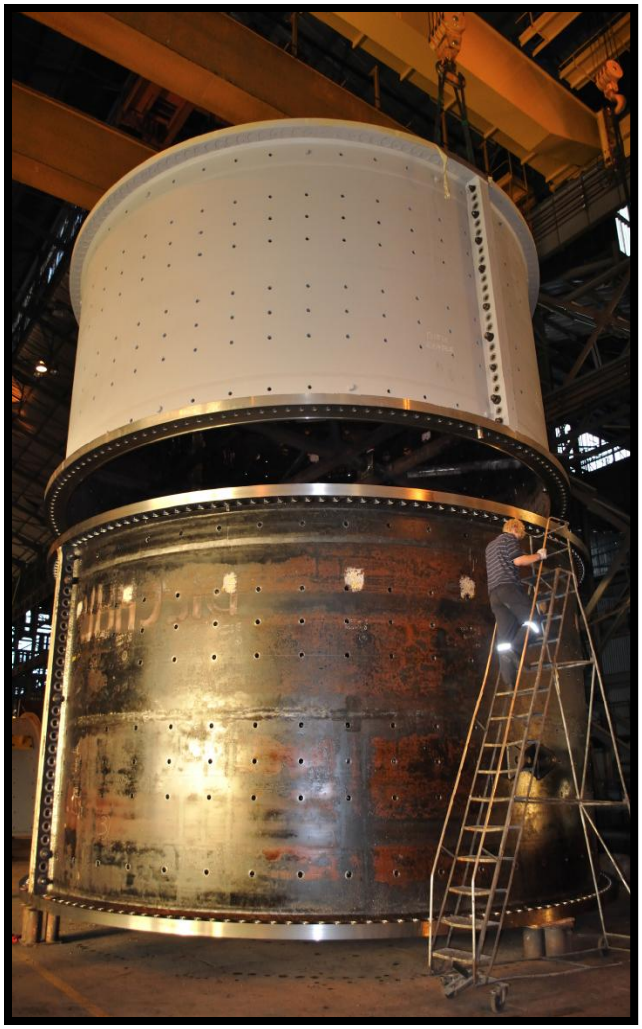
Preactor Presentation

DCD-DORBYL



18 August 2011

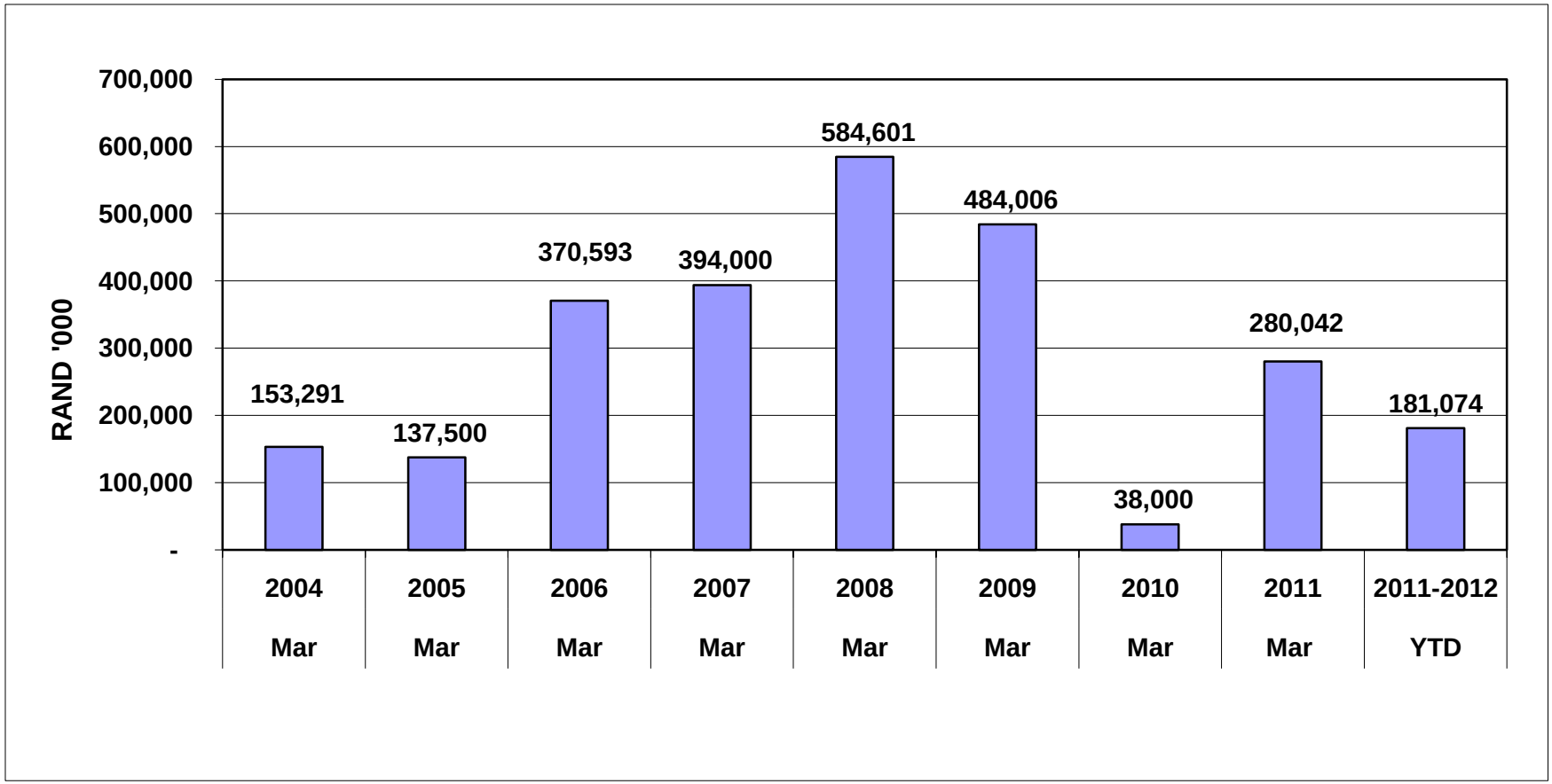
Scheduling before 2008

- Orders accepted purely on Budgeted Hours
- Excess machine capacity
- No Height, Mass or Space Constraints
- Labour could be increased relatively easily

What Changed

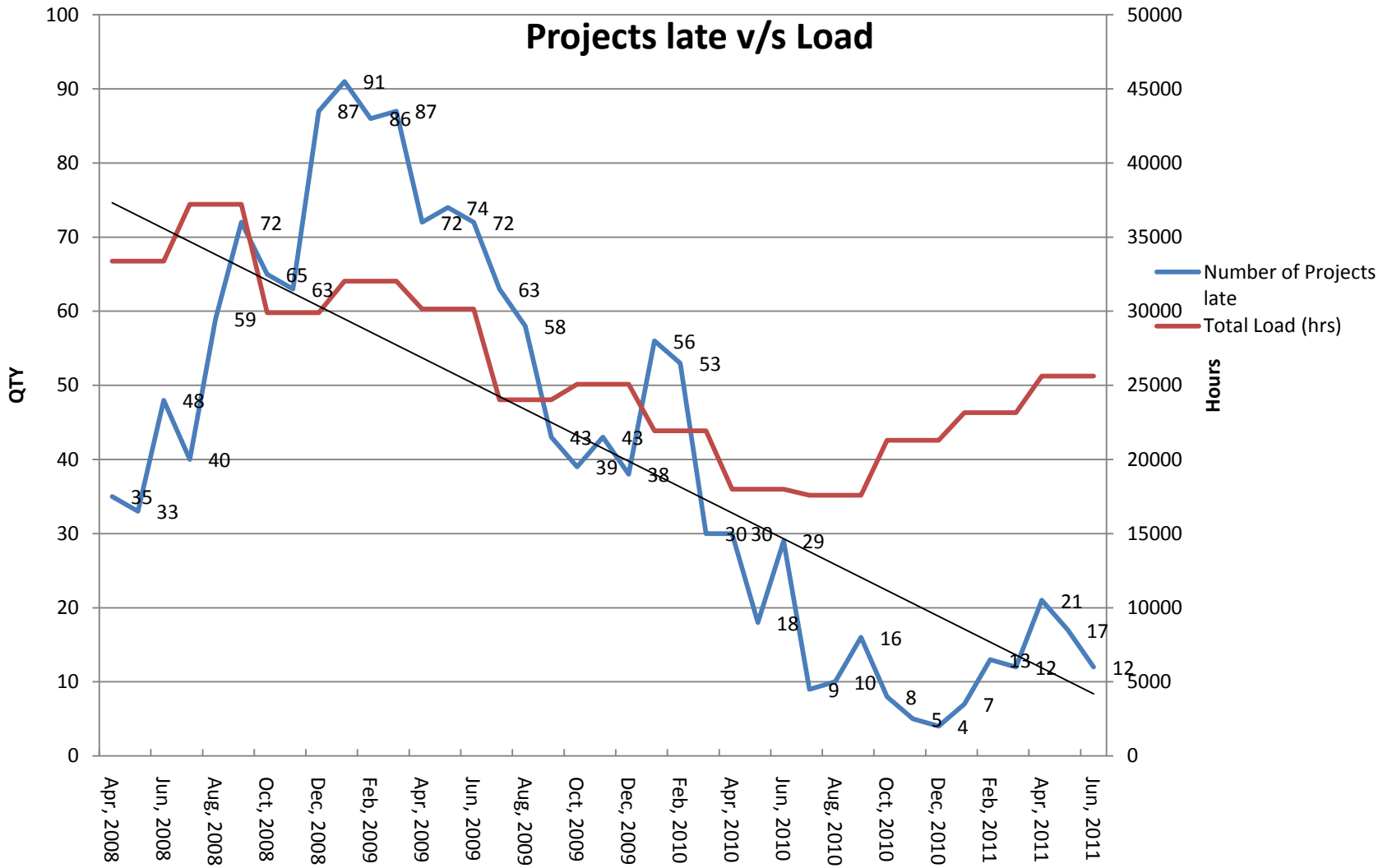
- Orders intake increased dramatically
- Available Machine capacity started to reduce
- Mills increased in Size & Mass, creating Space Constraints
- Labour not as freely available

Order Intake



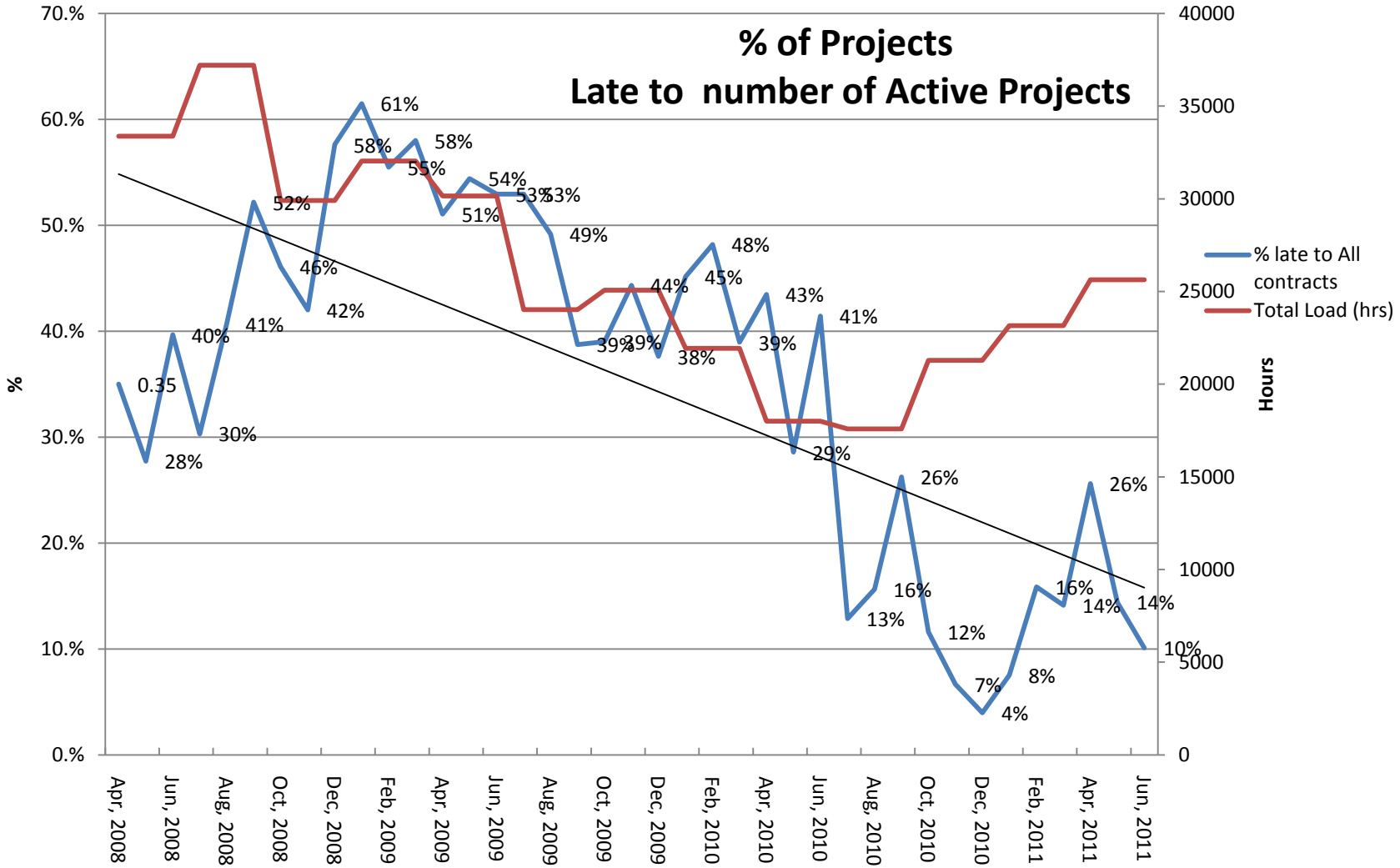
NOTE : CANCELLED ORDERS INCLUDED IN 2008 AND 2009 VALUES

The Result


Projects late v/s Load
QTY
Hours
Number of Projects late
Total Load (hrs)
100
90
80
70
60
50
40
30
20
10
0
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
Apr, 2008
Jun, 2008
Aug, 2008
Oct, 2008
Dec, 2008
Feb, 2009
Apr, 2009
Jun, 2009
Aug, 2009
Oct, 2009
Dec, 2009
Feb, 2010
Apr, 2010
Jun, 2010
Aug, 2010
Oct, 2010
Dec, 2010
Feb, 2011
Apr, 2011
Jun, 2011
35
33
48
40
72
59
65
63
91
87
86
87
72
74
72
63
58
43
39
43
38
56
53
30
30
29
18
9
10
16
8
5
4
7
13
12
21
17
12

The Result

DCD-DORBYL



The Situation in 2008

- “Fire Fighting” no longer helped get projects out on time.
- Customers became irate
- Customers threatened order cancellations
- Late Delivery penalties enforced
- Customer expeditors in our shops everyday

What we Needed

A better way of Scheduling had to be found

And Fast

To ensure accurate and reliable deliveries

What we Did

- Introduced “Critical Chain” Scheduling
- Introduced the WTL, based on the Critical Chain
- Departments agree on the WTL and are measured on their adherence
- Damage Control was required to retain our Customer base
- Advanced IT Management System Introduced (D-Man)
- Introduced Measureable Milestones

Concentrate Only on the Constraints

Typical Project Plan

- Hundreds of activities per project multiplied by many projects
- Very difficult and time consuming to monitor and difficult take action when things start to slip
- Does not Concentrate on Constraints

The Result is that Constraints are over committed, and deliveries are not achieved

Typical project plan

DCD-DORBYL

New folder\150929 CP SAG MILL R2.mpp

Critical Chain Plan

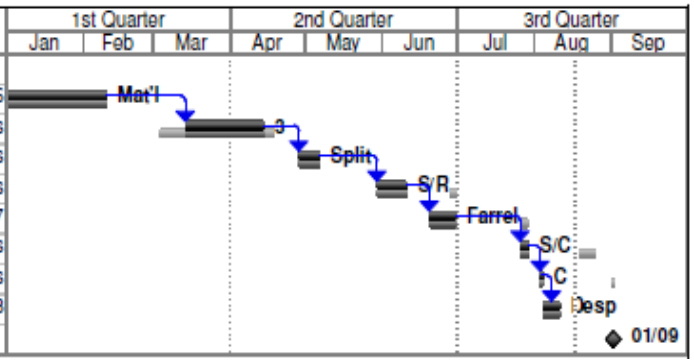
- Number of activities by project are reduced to only the Constraint Activities. Typically less than 12
- Easier monitoring of progress and timeous actioning of slippages
- Dedicated focus on Constraints

The Result is that Constraints are not over committed, and delivery prediction is more accurate.

Typical Critical Chain Plan

DCD-DORBYL

ID	Text1	Task Name	Duration	Start	Finish	Predecessors
186	151235	Sangan Sag Mill 32ft x 16ft (3 x 120)	1 day	Mon 30/08/10	Mon 30/08/10	
187	151235	Sangan Sag Mill 32ft x 16ft (3 x 120)	22.5 wks	Tue 31/08/10	Thu 10/02/11	186
188	151235	Sangan Sag Mill 32ft x 16ft (3 x 120)	4.75 wks	Mon 14/03/11	Thu 14/04/11	187FS+4.3 wks
189	151235	Sangan Sag Mill 32ft x 16ft (3 x 120)	1.25 wks	Thu 28/04/11	Fri 06/05/11	188FS+2 wks
190	151235	Sangan Sag Mill 32ft x 16ft (3 x 120)	2 wks	Mon 30/05/11	Fri 10/06/11	189FS+3 wks
191	151235	Sangan Sag Mill 32ft x 16ft (3 x 120)	1.75 wks	Mon 20/06/11	Thu 30/06/11	190FS+0.75 wks,327
192	151235	Sangan Sag Mill 32ft x 16ft (3 x 120)	0.75 wks	Tue 26/07/11	Fri 29/07/11	191FS+3.5 wks
193	151235	Sangan Sag Mill 32ft x 16ft (3 x 120)	1 day	Wed 03/08/11	Thu 04/08/11	192FS+0.5 wks
194	151235	Sangan Sag Mill 32ft x 16ft (3 x 120)	5 days	Thu 04/08/11	Thu 11/08/11	193
195	151235	Sangan Sag Mill 32ft x 16ft (3 x 120)	1 day	Thu 01/09/11	Thu 01/09/11	

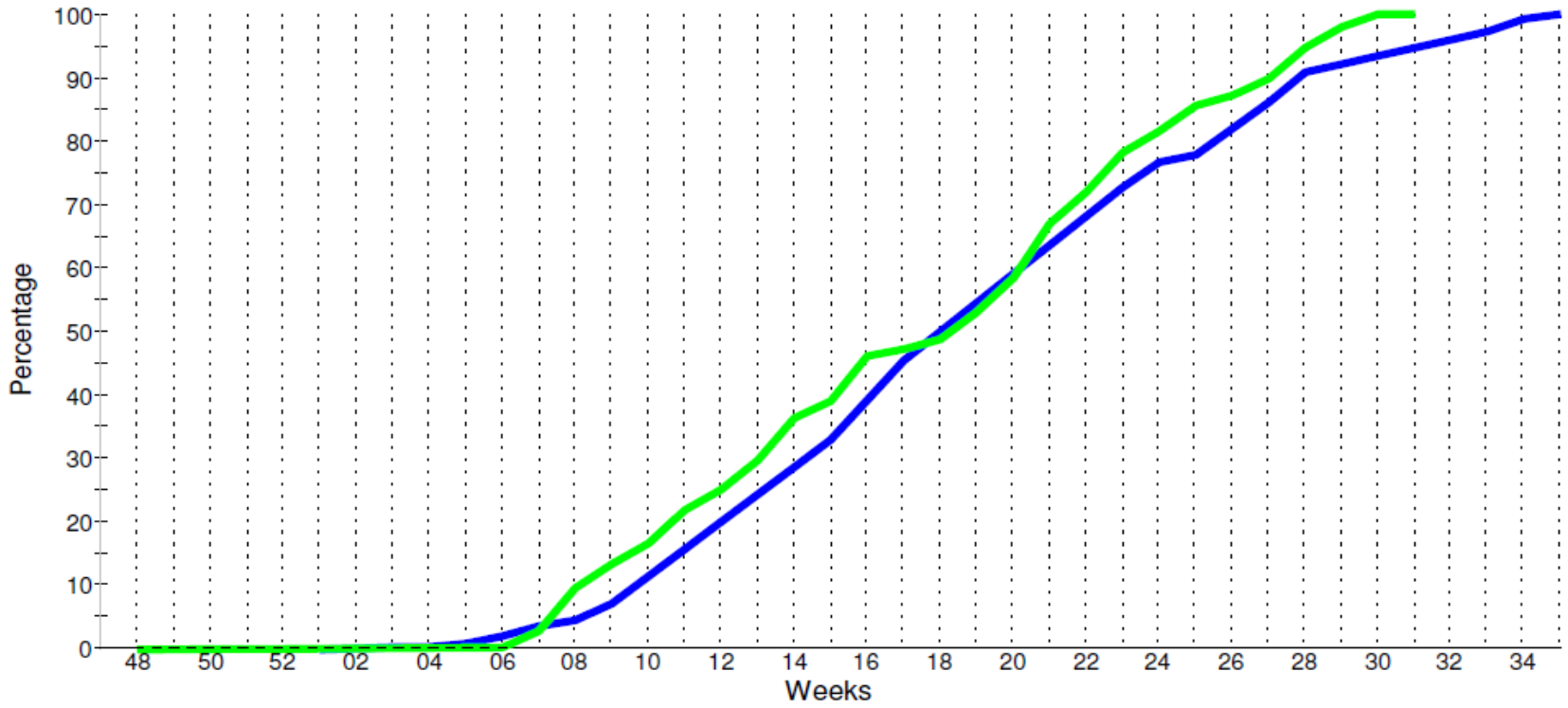


Adherence to Critical Chain Plan

DCD-DORBYL

DCD-DORBYL

151235 - SUNGUN SAG MILL 32FT X 16FT
Customer Order No : 1008-VL22188
Customer Name : FLSmidth (Pty) Ltd.



Contractual Delivery Date: 01 September 2011
Latest Acceptable Delivery Date: 17 August 2011

Backlog Hours 0 Hrs

Fixed Budget
Earned 100 %
Forward Load

So Why Preactor?

- Scheduling using MS Projects works, but is very time consuming
- Resources need to be selected manually
- Swopping of resources is done manually, by breaking and re-establishing links
- Links between Projects on a specific resource need to be created manually
- Prioritizing of projects is difficult
- Updating of Critical Chain is done manually

What Preactor can Do

- Critical Chain is created in MS Projects and imported by Preactor
- Resources are selected automatically
- Swopping of resources is done automatically
- Links between Projects on a specific resource are created automatically
- Prioritizing of projects is simple
- Updating of Critical Chain is done automatically as operations are clocked complete
- Scheduling will be “live” and accurate

What Preactor can Do

Preactor will

Find better scheduling solutions than can be done manually over a large number of projects

I Thank You for your Time

Any Question?