DP WORLD

Centerm Terminal, Vancouver, Canada

AAPA Facilities Engineering Seminar 2007

Container Terminal Construction Project Logistics
Global Presence

DP WORLD

UK
- Southampton
- Tilbury
- London Gateway

France
- Le Havre
- Fos/Marseille

Belgium
- Antwerp
- Deurganckdok

Pakistan
- Port Qasim

Russia
- Vostochny

Thailand
- Laem Chabang

China
- Qingdao
- Shekou

Philippines
- Manila

Indonesia
- Surabaya

Argentina
- Buenos Aires

Mozambique
- Maputo

US
- New Jersey
- Baltimore
- Miami
- New Orleans

Canada
- Vancouver

Australia
- Brisbane
- Sydney
- Melbourne
- Fremantle

India
- Mundra
- Nhava Sheva
- Chennai

Argentina
- Buenos Aires

Thailand
- Laem Chabang

DP WORLD
DP World – Global Reach

- 42\(^{(1)}\) marine terminals across 22 countries
- Total throughput of around 42 million\(^{(2)}\) TEU 2006
- Committed expansion to meet future customer needs
  - 2007 >48 million TEU
  - 2017 >84 million TEU
- Team of 30,000 staff
- Top 4 Global Operator

\(^{(1)}\) As at April 2007
\(^{(2)}\) All terminals as at 31 December 2006

Over a year, laid end to end, the boxes we handle would circle the world more than five times.
DP World Jebel Ali – A Flagship Facility

- 8th largest container port in 2006
- Annual growth has averaged over 20% for the past four years
- Handled 8.92m TEU in 2006 (Jebel Ali & Port Rashid)
- Jebel Ali is the largest container port between Rotterdam & Singapore
- 2006 Best Middle East seaport for the 12th consecutive year (AFSCA)
2005

DPI acquires CSX, creates DP World
The Port of Vancouver is the largest and most diversified port in Canada:

- 4 container terminals in Vancouver.

Centerm
Owned by: Vancouver Port Authority
Operated by: DP World, Vancouver
PORT FACING SIGNIFICANT GROWTH

- 1.77 million TEUs* passed through the three Port of Vancouver container terminals in 2005.
- Container volumes at the Vancouver Gateway is expected to triple by 2020 to five million TEUs.

**Deltaport**
- 65 hectares
- 900,000 TEU capacity

**Centerm**
- 29 hectares
- 785,000 TEU capacity

**Vanterm**
- 30 hectares
- 435,000 TEU capacity
Centerm History

- Centerm Previously operated by Casco Terminals
- Formed in 1968 - Canadian Stevedoring’s terminal operations division
- Operator since 1973
- Expertise in:
  - Containers
  - Pulp, lumber, general cargo, project cargo
- Purchased BC Rail in 1999
- Acquired by P&O - FEB 2003
- Acquired by DP World - 2006
• Increases throughput capacity from 200,000 to 435,000 container moves annually
• $160 million capital investment Centerm Redevelopment Project Phase 2
OPERATING CHANGES

Five Gantry Cranes, including two new, will be able to service bigger ships with efficiency.

On-dock Railyard Improvements – doubling track capacity, serviced by RTGs, less switching.

Rubber-tired Gantries (RTGs)

average stack up from three to six high max.

more container ground space

Automated Truck Gates

With OCR technology.
CONVERSION TO EFFICIENT OPERATION

16 RTG units replace the majority of top-pick machines, increasing container handling capacity:

- Containers can be stacked five high versus four high
- Higher container density
- RTGs require less room to manoeuvre and are more efficient in moving containers
INTERMODAL YARD CHANGES

On-dock Railyard Improvements – doubling track capacity, serviced by RTGs, less switching.
PRE- GATE PROCESS
PRE OUT- GATE PROCESS
• 2 Container Berths 644 m length – 15.5
• 5 Quay Cranes – Post Panamax
• 16 RTG’s – GPS tracked (1 over 5)
• 10 Top Picks
• 72 Acres
• 4 x 2,000’ Intermodal tracks
• 13 Lanes In / 3 Out OCR
• 546 Reefer Points
• Covered Sheds
• Real Time Inventory
Construction Phase
BERTH 6 CLOSED

BERTH 5