BHPBilliton Iron Ore Port – Sweating the assets



September 2003





Port Hedland Ports Operations





Nelson Point

- 240 hectares
- Approx 400 employees
- 3 car dumpers
- 4 reclaimers
- 6 stackers
- 2 berths

Finucane Island

- 222 hectares
- Approx 100 employees
- 1 car dumper
- 1 Primary stacker
- 2 dual stacker/reclaimers
- 1 berth



West Yard

Expected to be fully operational January 2004

Forecast shipping in excess of 3 million tonnes this year

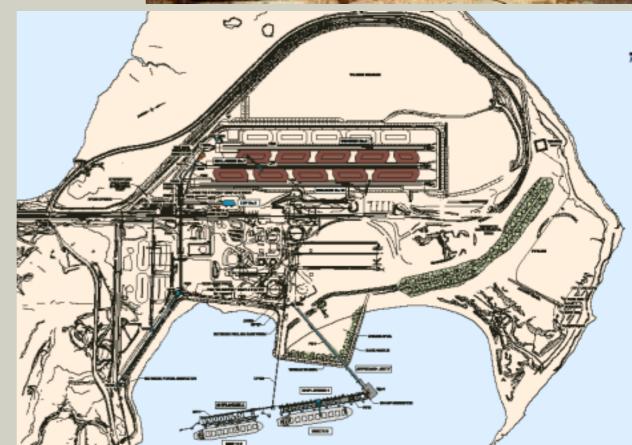
Nominal yard capacity 20 million tonnes per annum

New standards in workplace arrangements

Cutting edge environmental controls

Commissioning team for start up in place – *ready to hit the ground running*





Capacity Post West Yard (PACE)

	Nelson Point	Finucane Island	West Yard (January 04)
Now	3 car dumpers 4 reclaimers 6 stackers 2 berths (250 kt ship)	1 car dumper 1 Primary stacker 2 dual stacker/reclaimers 1 berth (250 kt ship)	2 stackers 1 Reclaimer 1 berth (250 kt ship)
Shipping	80 + Million T	onnes	20 Million tonnes
Future	100 +	Million tonnes	



Improved Capital Efficiency

Ore car dumping efficiencies achieved by increasing the use of multiple dumpers at the same time

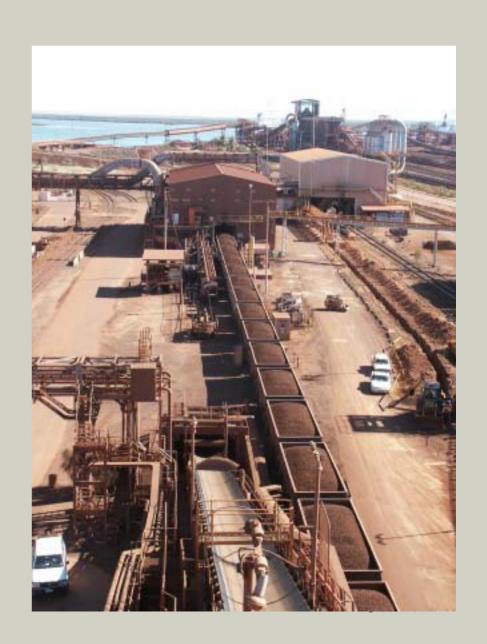
- has improved inflow substantially
- -Taking CSMS another step

Ongoing improvements in both shiploading and dumping rates

 has led to new monthly and weekly shipping records

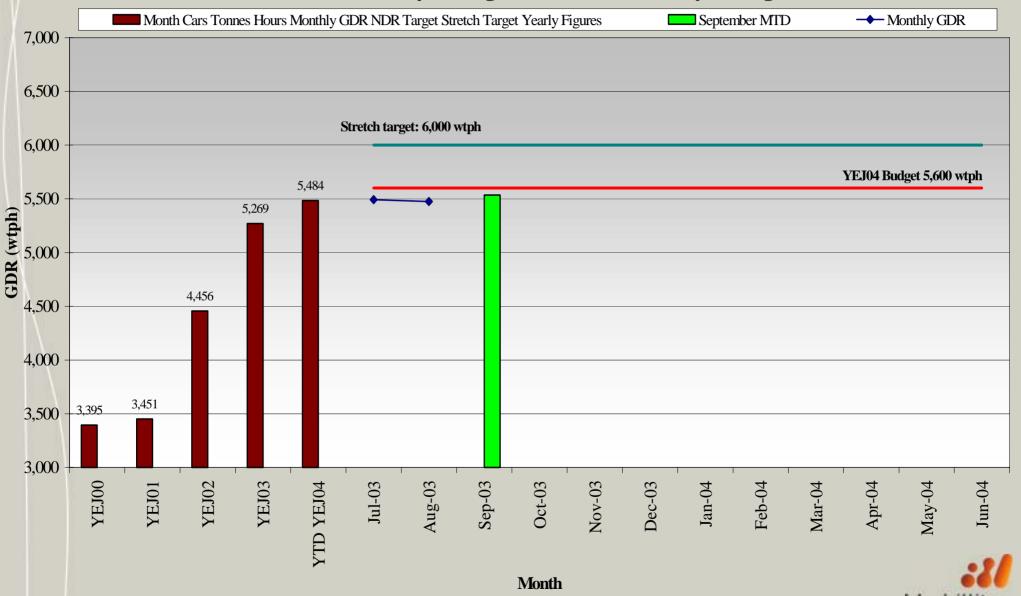
Employee engagement and involvement

 has accelerated the process of ongoing change and improvement



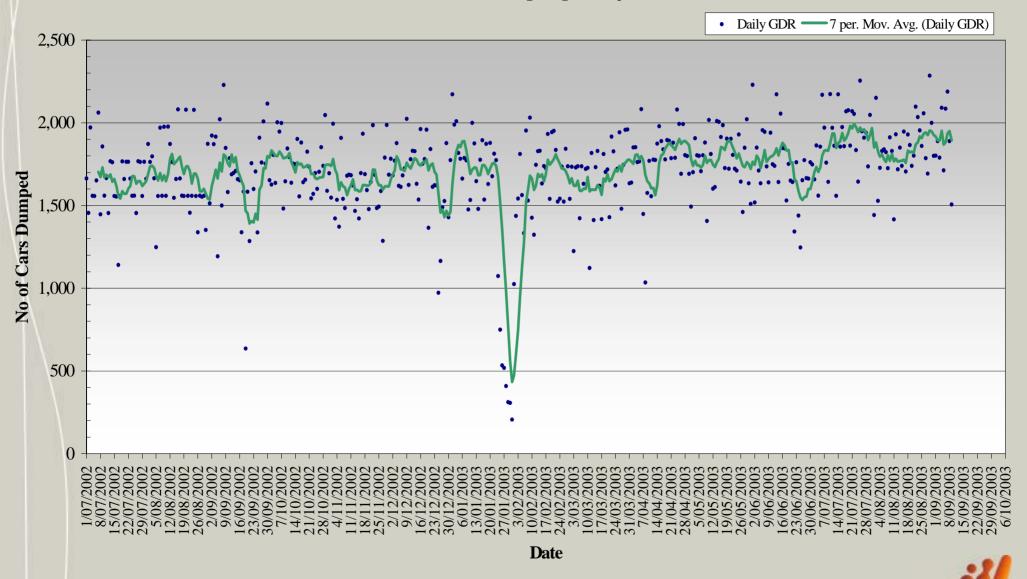
Production – Gross Dumping Rate

GDR - YEJ04 Monthly Averages vs Historical Monthly Averages



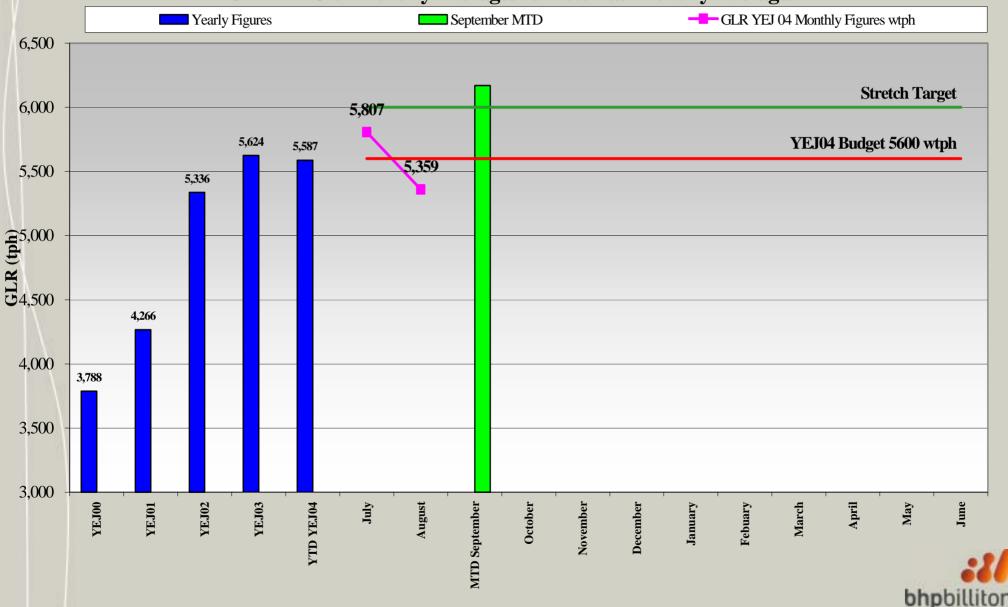
Production – Cars Dumped

No of Cars Dumped per Day



Production – Gross Loading Rate





Growth

2002/03 80.3Mt tonnes shipped (13% increase on 2001/02)

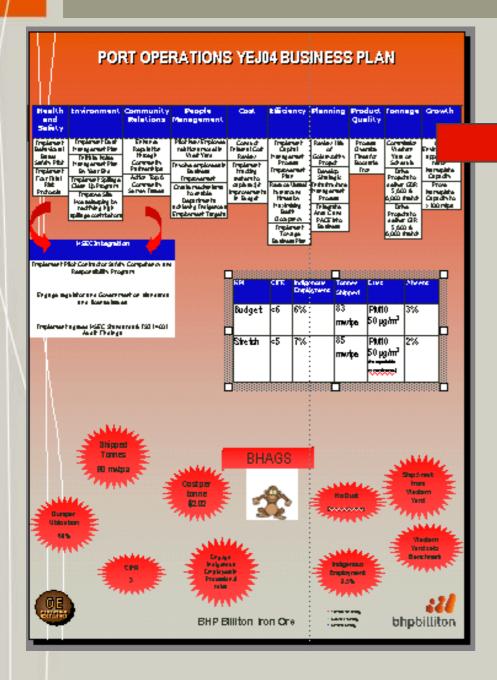
Growth achieved through:

- Better use of existing resources
- Improved workplace relations
- Better communications with Mine, Rail & Port
- Record briquettes shipped through Port





Business Plans



Port Maintenance YEJ04 Business Plan



	DFE	THR	interest exported	Potistard. Balget	Danging Swings	Debugs Delays	Aserberr	SPR	BCAS Mile ston
Balget	4.0	+ 600	75	105		+25	425%	8000	96%
Thirt	10.	410	16	\$11.70		42%	12%	980	178
Alka	17:		26			7.9%		- 010	47%

Reduce ORM Outstanding Action List - Quarterly Plan



Reference	ORBERGERBRING School Graph	
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Polaris

Project **Polaris** delivers an *Advanced Planning and Optimisation* solution to <u>forecasting and supply chain planning</u>. It includes the provision of accurate and timely information for port and vessel scheduling & commercial execution.

Port Hedland & Perth personnel use the system to:

- Forecast scheduled production take-on at the port and record actual stocks
- In conjunction with Singapore scheduling staff, assess the ability of production and the port to fulfil customer demand
- Build and assess the forward vessel schedule
- Perform berth management functions and record vessel events, tonnages and produce documentation
- Report port performance, throughput and summarised vessel and product information

Costs Advantages

- Decreased freight costs increased cross commodity freight sharing opportunities
- Decreased demurrage/penalties more accurate, visible planning & forecasting



Workplace Change

- More flexibility through individual arrangements – Australian Workplace Agreements (AWAs)
- Less third party interference - direct relationships
- All employees taking responsibility for driving change - OE process
- Goals linked to site business plans and Iron Ore road map





Sustainable Development

Aboriginal Employment

Ngarda Civil & Mining, Departmental indigenous targets, Cultural training

Environmental Management

Dust, Greening projects, Water recycling, noise controls, mangrove care

Community Relations

Community Consultation Group,
Management involvement in community,
community investment, Environmental
Economic and Social impact analysis on
each project

Local Economy

Local sourcing, workforce reside local, partnerships with Local Government



Emission Controls

Benchmarked as worlds best practice

Extensive dust management program, components:

- Dedicated team
- Program based on scientific research (CSIRO)
- Employee education
- Community involvement
- Local amenity projects
- Positive relationship with regulators



Where to from here

- Further "sweating the assets"
- Maximising potential of new assets
- Step change in employees relation model
- Using full capacity of our grade control system (CSMS)
- All employees involved in operational excellence (OE)
- Behaviour based safety system
- Town of PH strategy aligned to our business objectives
- Integrated planning ship scheduling to mine

