FIRST ANALYSIS INVESTMENT CONFERENCE

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Forward Looking Statements

This document contains “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. These statements are based on management’s reasonable expectations and assumptions as of the date the statements are made, but involve risks and uncertainties. These risks and uncertainties include, without limitation: the performance of stock markets generally; developments in worldwide and national economies; the cost and availability of electric power, natural gas and other raw materials; the ability to achieve price increases to offset cost increases; the degree of inflation in wages and other compensation; the ability to attain expected operational efficiencies; changes in foreign currencies and interest rates; continued timely development and market acceptance of new products and applications; the impact of competitive products and pricing; the impact of changes in financial accounting standards; the impact of tax and other legislation and government regulation in jurisdictions in which the company operates; the cost and outcomes of litigation; future financial and operating performance of major customers and industries served; and the effectiveness and speed of integrating new acquisitions into the business. These risks and uncertainties may cause actual future results or circumstances to differ materially from the projections or estimates contained in the forward looking statements. The Company assumes no obligation to update or provide revisions to any forward-looking statements in response to changing circumstances.
Diverse End Markets

2004 Sales $6.6 Billion

End Markets

- Healthcare: 11%
- Manufacturing: 21%
- Metals: 16%
- Food and Beverage: 7%
- Other: 12%
- Electronics: 7%
- Energy: 12%
- Chemicals: 10%
- Aerospace: 4%

Sales Growth

CAGR 2001-2005F

- Energy: 20%
- Healthcare: 18%
- Metals: 16%
- Other: 14%
- Chemicals: 13%
- Manufacturing: 12%
- Aerospace: 7%
- Food & Beverage: 5%

Customer diversity delivers growth and stability
Applications Technology Drives Growth

Growing at an increasing multiple of IP
Operating Philosophy

- Focus on 11 core geographies
- Leverage regional density
  - Focus where we have an advantage
- Optimized co-product economics
- Best local supplier gets growth
- Incremental growth synergy

**2004 ROC %**

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<th>Praxair</th>
<th>Average of Industrial Gas Peers</th>
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ROC=Net Operating Profit After Tax/Average Capital

Source: Bloomberg and company reports
“Terms of Trade” Drive Return on Capital

On-Site/Pipeline Supply - 25%
- 15 year take or pay contracts
- Escalation formulas – Electricity/Gas, Inflation, Currency exposure
- Price recovers fixed and capital costs

Merchant Liquid Supply - 29%
- 5 year requirements contracts
- Sourced as by-product from on-site
- Limited distribution range – 200/250 miles

Packaged/Medical Gases - 33%
- Cylinder and equipment rental
- 40% gases revenues under contract
- Sourced as by-product from bulk

Pricing leverage – small fraction of customers’ costs
North America

2004 Sales $4,191 MM

Onsite and Bulk Gases
♦ 300 production plants
♦ 8000 customer locations
♦ 1500 distribution vehicles
♦ 11 pipeline enclaves

Packaged and Specialty Gases
♦ 400 branches
♦ >300,000 customers
♦ 280 independent distributors

Unrivalled North American network
**Europe**

**2004 Sales - $847 MM***

- Solid businesses in Spain, Italy, Benelux, and now Germany
- 5 pipeline enclaves
- German acquisition – 12/04
- Builds density in Germany/Benelux
- High quality pipeline assets
- Attractive price – mid teens after tax IRR
- Accretive to earnings in 2005
- Integration on track
- Financial results exceeding expectations

*Includes 1 mo. of German acquisition

**Expect 2005 sales over $1 Billion and operating margin of ~ 25%**
South America

2004 Sales - $866 MM

- #1 position – 60% market share in Brazil
- Export industries very competitive
- Natural gas business driving growth
  - More natural gas than oil
  - Conversions from alternative fuels
- Praxair participating actively
  - JV with Petrobras for LNG distribution
  - First plant: Q1 2006 start-up

New capital investment indexed to USD
Praxair China Strategy

- Leading position in steel with strongest producers
- Leading position in semi-conductors
  - Shanghai - SMIC & Tailong
  - Beijing - SMIC 300mm wafer fab
- Shell Nanhai Complex
  - Shell & CNOOC $4.3B
  - O₂, N₂ & Ar supply
- Caojing petrochemical park
  - 50/50 JV with Air Liquide
  - BP, BAYER, BASF & SINOPEC $8B
  - O₂, N₂ & H₂ supply
- Six major projects to come on-stream in 2005-2007

2004 After tax return on capital above 12%
Praxair India Set To Grow Strongly

- Unprecedented new capital investment in manufacturing industries
- Per capita industrial gas sales
  - About 30% of China
  - About 1% of US
- Demand set to grow double digits
- Praxair #1 position
  - Strong relationships with industry leaders
- Recent business wins
  - Tata Steel
  - Saint Gobain
  - Owens Corning
  - Hospet Steel

Industrial Gas Market Supplied By Global Players
($260 MM)

- Praxair 42%
- Competitor 1
- Competitor 2 (JV)

Sales of $110 MM expected to grow ~20% p.a. through 2010

Source: Praxair Estimates
A Perfect Storm for Oxygen Applications

- Higher energy efficiency
- Higher throughput
- Less emissions

PX will commercialize 20+ new application technologies in 2005
Hydrogen

2004 Global Sales - $690 MM

Strong growth in North America
- Low sulfur fuel regulations
- Strong demand for gasoline and diesel
- Heavy crude upgrading
- Outsourcing hydrogen supply
- Canadian synthetic crude
  - Upgrading bitumen
  - Refining

Expect 20% p.a. growth through 2010

Source: EIA and PX estimates
Gulf Coast Hydrogen System

- 310 miles of pipeline
- 50 customers – refining and chemicals
- Connected to 85% of refining capacity
- 600 MMSCFD production capacity, 700MMSCFD by Q3 2006
- Capital investment underpinned by long-term contracts

Pipeline enclave delivers high reliability and high return on capital
US Rockies rig count has increased 75% since 2002

CO₂ and N₂ widely used to fracture low permeability formations during well completion

Praxair best positioned
- Location
- Expertise
- Relationships

Additional pipeline services

$200 MM revenues expected to grow 25% p.a.
Enhanced Oil Recovery Projects

PEMEX Samaria Oil Fields
- >6500 TPD of nitrogen injection
- N$_2$ injection and new wells expected to recover additional 470 MM barrels of oil and 540 BCF of natural gas through 2018
- Start-up Q1 2007

Occidental Petroleum
- 1100 TPD N$_2$ nitrogen injection
- Start-up Q2 2006

Long term potential to recover 120 B barrels of oil in NA
Process Engineering Lowers Capital Costs

Cryogenic High Purity Oxygen

2004 Plant Projects Variance From Budget

Cost

Schedule

Power Efficiency

Flawless execution assures that expected returns will be achieved
Robust Cash Flow Generation

- Operating cash flow
  9% CAGR

- Capital spending discipline
  - Increased hurdle rates
  - Core geographies

- Uses of free cash flow
  - Dividends
  - Selective acquisitions
  - Share repurchases
  - Debt reduction

Free Cash Flow 1996-2004 ($MM)

1) Non-GAAP measure. Free cash flow equals operating cash flow minus capital expenditures.
2) Excludes Leased Asset Purchase in 2003
Positive Business Outlook

- Refinery hydrogen and oil and gas well services continue to grow rapidly
- Business capital spending strong, continued strength in heavy manufacturing
- Steel industry expected to “work off” excess inventory – volumes set to improve
- Six Sigma and productivity initiatives on track for $160MM savings in 2005
- Accelerating contribution of Messer and Home Care Supply acquisitions
- Substantial new business on stream in 2006 and 2007 – over 25 new projects
Principles of Sustainability

**Governance and Integrity**
Foster a culture of integrity and accountability throughout the company through rigorous compliance with all laws, and by establishing and following effective corporate governance practices.

**Customer Commitment**
Continuously develop new products and applications that help our customers improve their productivity, energy efficiency and environmental performance. Provide the highest levels of service, reliability and quality to our customers.

**Environmental Responsibility**
Continue to improve the efficiency of energy consumption. Reduce the intensity\(^1\) of air emissions, including greenhouse gases.

**Employee Safety and Development**
Maintain a safe work environment with a goal of zero accidents. Provide training and career opportunities that allow employees to develop to their fullest potential. Increase the diversity of our workforce so that it is more representative of the communities in which we operate.

**Community Support**
Help to improve the welfare and future of the communities in which we operate by sharing our knowledge, expertise and resources related to environmental protection, and community health, safety and security.

**Financial Performance**
Continuously improve our financial performance and provide attractive returns to our shareholders. Generate operating cash flow to reinvest in business growth and pay dividends.

\(^1\)Intensity is per-unit-of-production measure
APPENDIX
Healthcare

2004 Global Sales - $740 MM*

- North America - 64%
- South America - 20%
- Europe/Asia - 16%

Service Offerings

- Homecare – 60%
  - Home oxygen
  - Sleep therapy
- Hospital – 40%
  - Oxygen supply systems
  - Analytical gases

Industry Outlook

- Organic growth of 6-8%
- Industry consolidation
  - US Homecare

Strong non-cyclical organic growth and low capital intensity

*includes 6 mos. HCS acquisition
Electronics

2004 Global Sales - $480 MM

- **Materials Science for 300mm**
  - Thin film metal deposition: PVD, CVD, & ALD
  - CMP consumables: pads, slurries
  - Advanced components

- **Supply Chain Services**
  - Generic components
  - Parts management

- **Electronic Gases**
  - On-site high purity gases
  - Select specialty gases
  - Expansion in Asia

**Investment focus on high growth, high return segments**

**By Geography**
- 2000: 89% North America/Europe, 11% Asia
- 2002: 80% North America/Europe, 20% Asia
- 2004: 73% North America/Europe, 27% Asia

**By Product**
- 2000: 64% Industrial Gases, 36% Materials Science & Services
- 2002: 58% Industrial Gases, 42% Materials Science & Services
- 2004: 52% Industrial Gases, 48% Materials Science & Services
Increasing Productivity Gains

Sources of Cost Savings

- Leverage procurement
- Drive operations efficiency
  - Per unit power consumption
  - Volume/trip
  - On-stream reliability
- Utilize six sigma
  - Operations
  - Business processes
  - Customer interface

$160MM planned productivity savings in 2005