

# Multinational Chemical & Metals Refining

## Background and Situation

- Multinational specialty chemical & precious metals refining company comprised of three major and two minor business groups
- In excess of \$100mm annual maintenance spend and 15% production downtime in 8 largest plants
- Emergency break-in work +20%
- Inconsistent application of Computerized Maintenance Management System (CMMS)
- No standard enterprise-wide process or metrics in place to manage asset reliability or monitor process performance
- A mix of union and non-union facilities
- Operations was disconnected from equipment ownership

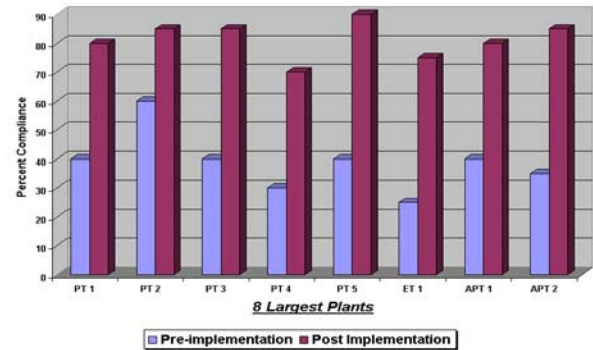
## Process Results:

- Daily schedule compliance from < 40% to + 80%
- 80% of scheduled jobs planned

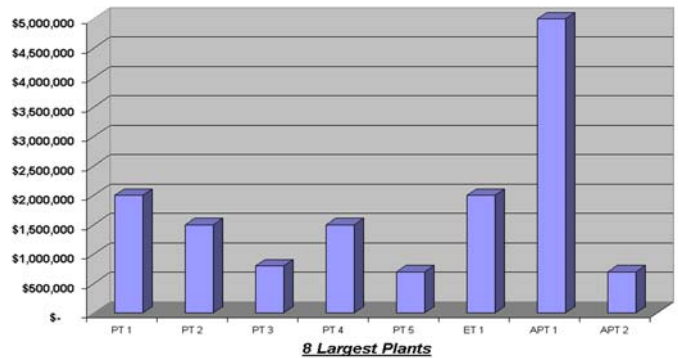
## Bottom-Line Impacts:

- Improved overall maintenance productivity by 20% resulting in
  - Reduced supplemental maintenance contractor cost by 75%
  - Reduced operations and maintenance overtime by 60%
  - Reduced headcount by 18%
- Reduced maintenance cost in 8 largest plants by \$14mm

*Maintenance Work Schedule Compliance*



*Annualized O & M Savings*



RELIABILITY MANAGEMENT GROUP

*Masters of Implementation*