



Rotating Machinery Controls



[PETROTECH HOME PAGE](#)

PARTIAL REFERENCE LIST OF CONTROL SYSTEMS FOR ROTATING MACHINERY

PRODUCT BULLETIN 03002

April 2009



Integrated Control Panels for a GE Frame 3 Turbine Compressor Retrofit Project

REFERENCE LIST

This bulletin contains a partial reference list of Rotating Machinery Control Systems that have been furnished by Petrotech, Inc.

TURBINE & RECIPROCATING ENGINE CONTROL SYSTEMS

The majority of the Turbine and Reciprocating Engine Control System projects are retrofits that were designed to replace the original equipment manufacturers' (oem's) controls that became out-dated, unreliable due to lack of spare parts, and had low operating efficiency.

COMPRESSOR CONTROL SYSTEMS

These type systems generally provide control of axial and centrifugal compressors using pneumatic controllers that were available in the early 1970s to advanced hardware platforms such as microprocessors and PLCs that are currently being used.

HARDWARE PLATFORM

The Integrated Control System can be configured to operate on most industrial control hardware platforms such as PLC's available from major manufacturers such as:

- Siemens-TI
- GE Fanuc
- Allen-Bradley
- Modicon

Hardware platforms are continuously being evaluated by Petrotech R & D to determine if it meets our requirement for a reliable and cost effective Rotating Machinery Control System.

CONTENTS

The reference list is comprised of the following major types of control systems:

• Turbine Control System

Integrated Control Systems designed to control Gas or Steam Turbines driving compressors, generators, and pumps.

Pages 2 to 6

• Reciprocating Engine Control System

Integrated Control Systems designed to control reciprocating engines driving compressors, pumps and generators.

Pages 7 and 8

• Compressor Control System

Control Systems designed to control centrifugal and axial compressors.

Pages 9 to 15

A review of the reference list will indicate that there are many repeat customers who have purchased Petrotech, Inc. Systems to control and protect their valuable machinery, some spanning over a decade. The industries served include Utilities(power generation), Oil & Gas Pipelines, Petrochemical Plants, and Oil & Gas Production Facilities.

GE Frame 3 Turbine Compressor Drive with

TURBINE CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
Allison 501 Series Turbine Compressor Drive			
Amerada Hess	2	Gas Processing Plant	U.S.A.
Columbia Gas Transmission	2	Pipeline	U.S.A.
Columbia Gulf Transmission	3	Pipeline	U.S.A.
El Paso/Tennessee Gas Pipeline	4	Pipeline	U.S.A.
Enron	2	Pipeline	U.S.A.
Enron/NNG	2	Gas Processing Plant	U.S.A.
Kinder Morgan	1	Pipeline	U.S.A.
Kinder Morgan/Natural Gas Pipeline	3	Pipeline	U.S.A.
Williams Natural Gas	3	Pipeline	U.S.A.
Allison 501 Series Turbine Generator Drive			
Aiken County Public Service	1	Wastewater Treatment Plant	U.S.A.
Phelps Dodge	2	Metals Processing	U.S.A.
Powertech Services	1	Power Generation	U.S.A.
Salomon Smith Barney	3	Emergency Backup Power	U.S.A.
Dresser DC 990 Turbine Compressor Drive			
Duke Energy	2	Pipeline	U.S.A.
Duke Energy/Texas Eastern Transmission	4	Pipeline	U.S.A.
El Paso/Tennessee Gas Pipeline	2	Pipeline	U.S.A.
Elliott Steam Turbine Compressor Drive			
Pemex	3	Refinery-Refrigeration	Mexico
Pemex	3	Refinery-Residual Gas	Mexico
Fiat TG-16 Turbine Compressor Drive			
Exxon Mobil	1	Pipeline	U.S.A.
GE Frame 3 Turbine Compressor Drive			
Arco Alaska	5	Gas Processing Plant	U.S.A.
CMS Energy/Trunkline Gas Company	4	Pipeline	U.S.A.
Duke Energy/Texas Eastern Transmission	20	Pipeline	U.S.A.
El Paso Energy	4	Pipeline	U.S.A.
El Paso/American Natural Resources	10	Pipeline	U.S.A.
El Paso/Tennessee Gas Pipeline	13	Pipeline	U.S.A.
Enron	2	Pipeline	U.S.A.
Enron/NNG	3	Pipeline	U.S.A.
Kinder Morgan/Natural Gas Pipeline	4	Pipeline	U.S.A.
Koch Gateway Pipeline	3	Pipeline	U.S.A.
Maraven	6	Refrigeration	Venezuela
Nerco	1	Refrigeration	U.S.A.
Shell	1	Gas Gathering	U.S.A.

TURBINE CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
GE Frame 3 Turbine Compressor Drive			
Tesoro Petroleum	1	Refinery	U.S.A.
Williams Natural Gas/Texas Gas Transmission	12	Pipeline	U.S.A.
Williams Natural Gas/Transco	8	Pipeline	U.S.A.
GE Frame 3 Turbine Compressor Drive with Tandem Steam Turbine for Power Boost			
Tosco	1	Refinery	U.S.A.
GE Frame 3 Turbine Generator Drive			
Elf Aquitaine	4	Power Generation	France
ELF Petroland	4	Power Generation	West Africa
GE Frame 5 Turbine Compressor Drive			
Duke Energy	4	Gas Processing Plant	U.S.A.
Duke Energy/Texas Eastern Transmission	9	Pipeline	U.S.A.
El Paso Energy	1	Pipeline	U.S.A.
El Paso/American Natural Resources	1	Gas Gathering	U.S.A.
El Paso/Tennessee Gas Pipeline	1	Pipeline	U.S.A.
Enterprise Products	2	Propane Refrigeration	U.S.A.
Maraven	1	Gas Injection	Venezuela
GE Frame 5 Turbine Generator Drive			
Alberta Pacific Forest Industries	1	Pulp/Paper Processing	Canada
Aluminium Bahrain	5	Alumimium Plant	Bahrain
American Atlas	1	Cogeneration	U.S.A.
Archer Daniels Midland	2	Food Processing	U.S.A.
Arizona Electric Power Company	3	Utility	U.S.A.
Central Vermont Public Service	1	Utility	U.S.A.
Chevron Angola	1	Utility	Angola
Citizens Utilities	3	Utility	U.S.A.
City of Lakeland	1	Utility	U.S.A.
City of Marquette	1	Utility	U.S.A.
City of Medicine Hat	2	Utility	Canada
City of Springfield Utility	2	Utility	U.S.A.
Consolidated Edison	4	Utility	U.S.A.
Delmarva Power	2	Utility	U.S.A.
Electricity Generating Authority	1	Utility	Thailand
Electroquito	2	Utility	Ecuador
Enelbar	2	Power Generation	Venezuela
Federal Electricity And Water	5	Utility	Dubai, U.A.E.
Houston Light and Power	1	Utility	U.S.A.
Imperial Irrigation	2	Gas Processing Plant	U.S.A.
Koch Power Company	4	Utility	U.S.A.

TURBINE CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
GE Frame 5 Turbine Generator Drive			
Madison Gas & Electric	4	Utility	U.S.A.
Manitowoc Power Company	1	Utility	U.S.A.
New Smyrna Beach Utility	1	Utility	U.S.A.
Northern Indiana Public Service	1	Utility	U.S.A.
Northern States Power	4	Utility	U.S.A.
*Pennsylvania Power & Light	4	Utility	U.S.A.
Reliant Energy/Orion Power	16	Utility	U.S.A.
Rochester Gas and Electric	1	Utility	U.S.A.
Texas Petrochemical	1	Petrochemical Plant	U.S.A.
Union Carbide	1	Petrochemical Plant	U.S.A.
Virgin Islands Water & Power	2	Utility	Virgin Islands
GE Frame 7 Turbine Generator Drive			
Lincoln Electric	1	Utility	U.S.A.
GE LM 1500 Turbine Compressor Drive			
Enron/NNG	3	Pipeline	U.S.A.
Sempra Energy/Southern California Gas	3	Pipeline	U.S.A.
GE LM 2500 Turbine Generator Drive			
CMS Energy	1	LNG Storage	U.S.A.
GE LM 5000 Turbine Generator Drive			
American Municipal Power	2	Utility	U.S.A.
Ecopetrol	1	Refinery	Columbia
Tractebel	1	Utility	U.S.A.
Hispano Suiza Model 1203 Turbine Compressor Drive			
Connecticut Natural Gas	2	Pipeline	U.S.A.
Total Peaking	1	Gas Processing Plant	U.S.A.
Lycoming TF-35 Turbine Generator Drive			
Cooperativa Electrica	1	Power Generation	Argentina
Pratt & Whitney GG3 Turbine Compressor Drive			
Duke Energy/Texas Eastern Transmission	1	Pipeline	U.S.A.
Williams Natural Gas/Texas Gas Transmission	1	Pipeline	U.S.A.
Pratt & Whitney GG4 Turbine Generator Drive			
Columbia Gulf	3	Pipeline	U.S.A.
Pratt & Whitney GG4 Turbine Generator Drive			
Consolidated Edison	1	Utility	U.S.A.
ZADCO	1	Power Generation	Abu Dhabi

TURBINE CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
Rolls-Royce Avon Series Turbine Compressor Drive			
Columbia Gulf Transmission	3	Pipeline	U.S.A.
Kinder Morgan/Natural Gas Pipeline	2	Pipeline	U.S.A.
Maraven	2	Gas Gathering	Venezuela
Vico	2	Pipeline	Indonesia
Rolls-Royce Avon Series Turbine Generator Drive			
Qatar Fertilizer Company	2	Fertilizer Plant	Qatar
Ruston TA Series Turbine Compressor Drive			
Chevron	1	Pipeline	U.S.A.
Ruston TB Series Turbine Compressor Drive			
Petroleum Development of Oman	1	Pipeline	Oman
Ruston TB Series Turbine Generator Drive			
Oman Refinery Corporation	2	Refinery	Oman
Ruston TB Series Turbine Pump Drive			
Arco Alaska	4	Pipeline	U.S.A.
Conoco Alaska	3	Pipeline	U.S.A.
Petroperu	3	Pipeline	Peru
Phillips Alaska	2	Pipeline	U.S.A.
Solar Centaur Turbine Compressor Drive			
Apache/Shamrock	1	Pipeline	U.S.A.
Enron/TGS	3	Pipeline	Argentina
Koch Gateway Pipeline	2	Pipeline	U.S.A.
National Gas Company of Trinidad	3	Pipeline	Trinidad
Texaco	1	Gas Gathering	U.S.A.
TotalFinaElf	2	Gas Gathering	The Netherlands
UMIC	1	Gas Gathering	West Africa
Williams Natural Gas	1	Pipeline	U.S.A.
Williams Natural Gas/Northwest Pipeline	2	Pipeline	U.S.A.
Solar Centaur Turbine Generator Drive			
AGIP	2	Power Generation	Nigeria
Plains Exploration	2	Power Generation	U.S.A.
Solar Mars Turbine Compressor Drive			
Wood Group	1	Gas Processing Plant	Dubai
Wood Group	1	Gas Processing Plant	Indonesia
Solar Mars Turbine Generator Drive			
ONGC	4	Offshore Power Generation	India

TURBINE CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
Solar Saturn Turbine Compressor Drive			
Conoco	1	Gas Gathering	U.S.A.
El Paso Natural Gas	4	Pipeline	U.S.A.
El Paso/American Natural Resources	1	Pipeline	U.S.A.
Enron/NNG	3	Pipeline	U.S.A.
Gaz de France	2	Gas Gathering	The Netherlands
Kerr-McGee/Oryx Energy	1	Gas Gathering	U.S.A.
KN Energy	2	Pipeline	U.S.A.
Petronas Carigali	2	Pipeline	Malaysia
South Carolina Pipeline	42	Pipeline	U.S.A.
Williams Natural Gas/Northwest Pipeline	2	Pipeline	U.S.A.
Solar Saturn Turbine Generator Drive			
Bras Nigeria	2	Power Generation	Nigeria
Westinghouse 251 Turbine Compressor Drive			
Duke Energy/Pan Energy	1	Gas Processing Plant	U.S.A.
Westinghouse 251 Turbine Generator Drive			
DSM	1	Power Generation	The Netherlands
Texas Petrochemical	1	Petrochemical Plant	U.S.A.
Westinghouse 251 Turbine Hot Gas Generator with Tandem Steam Turbine for Power Boost			
Global Octanes	1	Refinery	U.S.A.

RECRIPROCATING ENGINE CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
Ariel Compressor Drive Brotherhood, Ltd.	4	Pipeline	Argentina
Ariel JGB12 Compressor Drive El Paso/Tennessee Gas Pipeline	1	Pipeline	U.S.A.
Chicago Compressor Compressor Drive PEMEX	1	Oil/Gas Separation	Mexico
Clark BA-8M Compressor Drive El Paso/Tennessee Gas Pipeline	9	Pipeline	U.S.A.
Clark HBA-6 Compressor Drive El Paso/Tennessee Gas Pipeline	16	Pipeline	U.S.A.
Clark HBA-8 Compressor Drive El Paso/Tennessee Gas Pipeline	3	Pipeline	U.S.A.
Clark HBA-8T Compressor Drive Duke Energy	3	Pipeline	U.S.A.
ClarkTCV-16 Compressor Drive Duke Energy/Texas Eastern Transmission	2	Gas Storage	U.S.A.
ClarkTCVA-16 Compressor Drive Enron/NNG	1	Pipeline	U.S.A.
ClarkTCVC-20 Compressor Drive Enron/NNG	1	Pipeline	U.S.A.
ClarkTLA-6 Compressor Drive Enron/NNG	4	Pipeline	U.S.A.
ClarkTRA-8M Compressor Drive El Paso/Tennessee Gas Pipeline	1	Pipeline	U.S.A.
Cooper-Bessemer 14-4 Compressor Drive Williams Natural Gas/Texas Gas Transmission	1	Pipeline	U.S.A.
Cooper-Bessemer GMV-10 Compressor Drive El Paso/Tennessee Gas Pipeline	21	Pipeline	U.S.A.
Cooper-Bessemer GMVA-8 Compressor Drive PEMEX	3	Pipeline	Mexico

RECRIPROCATING ENGINE CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
Cooper-Bessemer GMWA-10 Compressor Drive			
Duke Energy/Texas Eastern Transmission	3	Pipeline	U.S.A.
El Paso/Tennessee Gas Pipeline	12	Pipeline	U.S.A.
Cooper-Bessemer GMWA-6 Compressor Drive			
Enron/NNG	2	Pipeline	U.S.A.
Cooper-Bessemer GMWA-8 Compressor Drive			
Enron/NNG	1	Pipeline	U.S.A.
Cooper-Bessemer GMWC-6 Compressor Drive			
Enron/NNG	4	Pipeline	U.S.A.
Dresser-Rand Compressor Drive			
Chevron	2	Pipeline	U.S.A.
Ingersol-Rand KVR-16 Compressor Drive			
Enron/NNG	1	Pipeline	U.S.A.
Ingersol-Rand KVS-12 Compressor Drive			
Southern California Pipeline	5	Gas Storage	U.S.A.
Trinidad Natural Gas	4	Gas Storage	Trinidad
Ingersol-Rand KVT-16 Compressor Drive			
Enron/NNG	1	Pipeline	U.S.A.
Ingersoll-Rand 2HHE-VE Generator Drive			
Shell Sarawak	3	Power Generation	Indonesia
Rolls-Royce Allen 5016 V16 Compressor Drive			
Power Engineering	1	Pipeline	Taiwan
Ruston 16 RKW Generator Drive			
Alstom/Kim Chuan	3	Power Generation	Singapore
Various Engines Compressor Drive			
Williams Natural Gas/Texas Gas Transmission	30	Pipeline	U.S.A.
Waukesha 7042 GU Generator Drive			
Southern California Pipeline	3	Power Generation	U.S.A.
Waukesha 7042 V-12 Generator Drive			
Southern California Pipeline	4	Power Generation	U.S.A.
Worthington 168-LTC Compressor Drive			
El Paso/Tennessee Gas Pipeline	8	Pipeline	U.S.A.

COMPRESSOR CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
Single-section Air Separation Compressor			
Air Liquide	1	Gas Processing Plant	Canada
Argonal/Air Liquide	1	Chemical Plant	Canada
City of Los Angeles	5	Chemical Plant	U.S.A.
City of Los Angeles	5	Hyperion Plant	U.S.A.
Dragoso	1	PTA Plant	Canada
Single-section Alkaline Process Compressor			
Tesoro Petroleum	1	Refinery	U.S.A.
Single-section Carbon Monoxide Compressor			
Liquid Carbonic Industrial	1	Chemical Plant	U.S.A.
Single-section Chlorine Process Compressor			
Formosa Plastics	6	Chemical Plant	U.S.A.
Single-section Crack Gas Process Compressor			
Dow Chemical	2	Chemical Plant	U.S.A.
Single-section Ethylene Compressor			
Han Yang Chemical	3	Refinery	South Korea
Single-section FCCU Process, Axial Compressor			
Fina Oil & Chemical	2	Refinery	U.S.A.
Mobil Refinery	2	Refinery	U.S.A.
Mobil Refinery	1	Refinery	U.S.A.
Single-section FCCU Wet Gas Compressor			
Sinclair Oil	2	Refinery	U.S.A.
Single-section H2S Compressor			
Brigita	2	Gas Processing Plant	Germany
Brigita	2	Gas Processing Plant	Germany
Single-section HCL Blower Compressor			
Han Yang Chemical	2	Refinery	South Korea
Single-section Hydrogen Compressor			
Mobil Refinery	3	Refinery	U.S.A.
Shell Refining Inc.	2	Refinery	U.S.A.
Texaco	6	Refinery	U.S.A.
Single-section Hydrogen/Methane Compressor			
Zhongyuan Petrochem	6	Chemical Plant	China
Single-section Liquid Extraction Compressor			
Mid Con	2	Pipeline	U.S.A.

COMPRESSOR CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
Single-section LPG Compressor			
Amoco	1	LPG Plant	Sharjah, U.A.E.
Single-section Maleic Anhydride Compressor			
Miles Inc.	2	Refinery	U.S.A.
Single-section Natural Gas Compressor			
AGIP	1	Gas Gathering	Italy
Al Furat Petroleum	5	Gas Processing Plant	Syria
American Pipeline	1	Pipeline	U.S.A.
Amoco	3	Refinery	U.S.A.
Amoco	1	LPG Plant	Sharjah, U.A.E.
Amoco	4	Pipeline	Sharjah, U.A.E.
Arco Indonesia	6	Gas Gathering	Indonesia
Arco	2	Gas Gathering	China
Arco	2	Pipeline	U.S.A.
Arkla Energy	2	Pipeline	U.S.A.
Chevron Overseas	2	Gas Gathering	West Africa
Chevron Overseas	8	Gas Lift	West Africa
Chevron	8	Gas Gathering	U.S.A.
China Pipeline	2	Pipeline	China
CMS Energy/Trunkline Gas Company	3	Pipeline	U.S.A.
Columbia Gas Transmission	2	Pipeline	U.S.A.
Consolidated Edison	1	Pipeline	U.S.A.
Consolidated Natural Gas	3	Pipeline	U.S.A.
Crescent Petroleum	1	Gas Gathering	Dubai, U.A.E.
Delhi Gas	2	Pipeline	U.S.A.
Pipeline	2	Pipeline	U.S.A.
Duke Energy/Algonquin Gas Pipeline	6	Pipeline	U.S.A.
Duke Energy/Pan Energy	1	Gas Processing Plant	U.S.A.
Duke Energy/Texas Eastern Transmission	29	Pipeline	U.S.A.
Duke Energy	1	Gas Processing Plant	U.S.A.
El Paso Energy	4	Pipeline	U.S.A.
El Paso Natural Gas	4	Pipeline	U.S.A.
El Paso/American Natural Resources	9	Pipeline	U.S.A.
El Paso/Tennessee Gas Pipeline	24	Pipeline	U.S.A.
Elf Petroland	3	Gas Processing Plant	The Netherlands
Enagas	4	Pipeline	Spain

COMPRESSOR CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
Single-section Natural Gas Compressor			
Enron/NNG	12	Pipeline	U.S.A.
Enron/TGS	3	Pipeline	Argentina
Enron	6	Pipeline	U.S.A.
Enserch	2	Gas Gathering	U.S.A.
EPMI	1	Gas Injection	Malaysia
Exxon	2	Gas Processing Plant	U.S.A.
Exxon	2	Gas Gathering	U.S.A.
Exxon	3	Gas Injection	U.S.A.
Exxon	4	Gas Processing Plant	U.S.A.
Foothills Pipeline	3	Pipeline	Canada
GPM	2	Gas Processing Plant	U.S.A.
GUPCO	1	Gas Gathering	Egypt
Hadson Energy	2	Gas Processing Plant	Australia
Huffco	1	Gas Gathering	Indonesia
Kerr-McGee/Oryx Energy	3	Gas Gathering	U.S.A.
Kinder Morgan/Natural Gas Pipeline	6	Pipeline	U.S.A.
KN Energy	2	Pipeline	U.S.A.
Koch Gateway Pipeline	5	Pipeline	U.S.A.
Maersk	6	Gas Gathering	The Netherlands
Maraven	7	Pipeline	Venezuela
Maraven	1	Gas Gathering	Venezuela
Maraven	1	Gas Injection	Venezuela
Maraven	5	Gas Lift	Venezuela
Megal	4	Pipeline	Germany
Mesa Petroleum	4	Gas Gathering	U.S.A.
Mesa Petroleum	2	Pipeline	U.S.A.
Mobil Netherlands	1	Gas Gathering	The Netherlands
Pennzoil	9	Gas Gathering	Russia
Petrobel	4	Gas Gathering	Egypt
Petrocanada	2	Gas Gathering	Canada
Petrocanada	2	Gas Processing Plant	Canada
Petroleum Development of Oman	2	Gas Processing Plant	Oman
Petroleum Development of Oman	6	LPG Plant	Oman
Petronas Carigali	2	Gas Lift	Malaysia
Petronas Carigali	3	Pipeline	Malaysia
Phillips Petroleum	2	Gas Lift	The Netherlands

COMPRESSOR CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
Single-section Natural Gas Compressor			
Placid Oil	6	Gas Processing Plant	U.S.A.
SECWA	6	Pipeline	Australia
Shell Brunei	2	Gas Gathering	Brunei
Shell Offshore Inc.	6	Gas Gathering	U.S.A.
Shell	1	Gas Gathering	U.S.A.
Sonatrach	1	Pipeline	Algeria
South Carolina Pipeline	9	Pipeline	U.S.A.
Southwest Gas	1	Pipeline	U.S.A.
Texaco	1	Gas Gathering	U.S.A.
Texas Utilities	4	Pipeline	U.S.A.
Union Gas	1	Pipeline	Canada
Union Pacific Resources	2	Gas Processing Plant	U.S.A.
Union Pacific Resources	3	Pipeline	U.S.A.
United Texas Transmission	10	Pipeline	U.S.A.
Universal Compression	1	Fuel Gas Compression	Iraq
Unocal	3	Gas Gathering	Thailand
Valero Energy	2	Gas Processing Plant	U.S.A.
Valero Energy	30	Pipeline	U.S.A.
Virginia Indonesia Company	2	Gas Gathering	Indonesia
Warren Petroleum	3	Pipeline	U.S.A.
Williams Natural Gas/Northwest Pipeline	10	Pipeline	U.S.A.
Williams Natural Gas/Texas Gas Transmission	13	Pipeline	U.S.A.
Williams Natural Gas/Trans OK	1	Pipeline	U.S.A.
Williams Natural Gas/Transco	31	Pipeline	U.S.A.
Williams Natural Gas	1	Pipeline	U.S.A.
Wintershall Noordzee	2	Gas Gathering	The Netherlands
Wintershall Noordzee	2	Gas Lift	The Netherlands
Single-section Nitric Acid Expansion Compressor			
C.F. Industries	2	Chemical Plant	U.S.A.
Mississippi Chemical	2	Chemical Plant	U.S.A.
Single-section Nitrogen Process Compressor			
Liquid Carbonic Industrial	2	Chemical Plant	U.S.A.
Single-section Process Air Compressor			
Sterling Chemicals	3	Chemical Plant	U.S.A.
Single-section Propane Refrigeration Compressor			
Enterprise Products	1	Chemical Plant	U.S.A.
Mobil Refinery	2	Refinery	U.S.A.
Shell Refining Inc.	2	Refinery	U.S.A.
Enron	2	Gas Processing Plant	U.S.A.

COMPRESSOR CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
Single-section Refrigeration Compressor			
Enron	2	Gas Processing Plant	U.S.A.
Valero Energy	2	Gas Processing Plant	U.S.A.
Wesfarmers	4	Gas Processing Plant	Australia
Will Gas Company	1	Gas Processing Plant	U.S.A.
Single-section Residual Gas Compressor			
PEMEX	3	Refinery	Mexico
Single-section Turbo Expander Compressor			
PEMEX	2	Refinery	Mexico
Petroleum Development of Oman	8	LNG Plant	Oman
Single-section Waste Gas Compressor			
Quantum Chemical	2	Chemical Plant	U.S.A.
Single-section Maleic Anhydride Compressor			
Miles Inc.	2	Refinery	U.S.A.
Two-inlet Refrigeration Compressor			
Al Furat Petroleum	3	Gas Processing Plant	Syria
Nerco	1	Gas Processing Plant	U.S.A.
Petroleum Development of Oman	1	Gas Processing Plant	Oman
Two-section Carbon Monoxide Compressor			
Liquid Carbonic Industrial	1	Chemical Plant	U.S.A.
Two-section Coker Gas Compressor			
PEMEX	1	Refinery	Mexico
Petrobras	1	Gas Processing Plant	Brazil
Shell Refining Inc.	2	Refinery	U.S.A.
Two-section FCCU Wet Gas Compressor			
Petrobras	1	Gas Processing Plant	Brazil
Petrobras	1	Refinery	Brazil
Two-section Flash Gas Process Compressor			
Petroleum Development of Oman	4	LPG Plant	Oman
Two-section H2S Gas Compressor			
PEMEX	4	Gas Processing Plant	Mexico
Two-section Hydrogen Gas Compressor			
B.P. Alliance Refinery	1	Refinery	U.S.A.

COMPRESSOR CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
Two-section LNG Refrigeration Compressor			
Williams Natural Gas/Northwest Pipeline	1	LNG Plant	U.S.A.
Williams Natural Gas/Northwest Pipeline	1	Pipeline	U.S.A.
Two-section Natural Gas Compressor			
Amerada Hess	6	Gas Processing Plant	U.S.A.
Apache Corporation	1	Pipeline	U.S.A.
Arco Alaska	5	Gas Lift	U.S.A.
Arco	1	Gas Gathering	U.S.A.
Chevron Cabinda	1	Gas Gathering	Cabinda
Chevron Zaire	5	Gas Gathering	Zaire
Chevron	2	Gas Gathering	U.S.A.
El Paso/Tennessee Gas Pipeline	2	Pipeline	U.S.A.
Elf Petroland	2	Gas Gathering	The Netherlands
EPMI	3	Gas Gathering	Malaysia
GUPCO	1	Gas Gathering	Egypt
GUPCO	2	Gas Lift	Egypt
Maraven	1	Pipeline	Venezuela
Maraven	3	Gas Gathering	Venezuela
Maraven	2	Gas Lift	Venezuela
Gas Processing Plant	1	Gas Processing Plant	U.S.A.
Mesa Petroleum	2	Pipeline	U.S.A.
NORAM	2	Pipeline	U.S.A.
PEMEX	3	Gas Gathering	U.S.A.
Sempra Energy/Southern California Gas	3	Gas Injection	U.S.A.
Shell Offshore Inc.	7	Gas Gathering	U.S.A.
Shell Offshore Inc.	1	Gas Lift	U.S.A.
Sovereign Oil	2	Gas Lift	United Kingdom
Union Pacific Resources	1	Pipeline	U.S.A.
Union Texas Petroleum	1	Gas Gathering	U.S.A.
Unocal	2	Gas Gathering	Malaysia
Two-section Process Air Compressor			
Chevron Chemical	2	Chemical Plant	U.S.A.
Two-section Propane Refrigeration Compressor			
Duke Energy/Pan Energy	1	Gas Processing Plant	U.S.A.
Two-section Propylene Compressor			
Fina Oil & Chemical	2	Refinery	U.S.A.
Two-section Coker Gas Compressor			
PEMEX	1	Refinery	Mexico

COMPRESSOR CONTROL SYSTEMS

TYPE/CUSTOMER	QTY	SERVICE	LOCATION
Two-stage Refrigeration Compressor			
PEMEX	3	Refinery	Mexico
Three-inlet Refrigeration Compressor			
El Paso/Coastal Javelina	4	Gas Processing Plant	U.S.A.
Maraven	2	Gas Processing Plant	Venezuela
Three-section Natural Gas Compressor			
Amoco	2	Gas Gathering	Trinidad
Amoco	2	Gas Lift	Trinidad
Pipeline	4	Pipeline	U.S.A.
Chevron Cabinda	1	Gas Gathering	Cabinda
Chevron Zaire	1	Pipeline	Zaire
Chevron	1	Gas Gathering	U.S.A.
Chevron	1	Gas Lift	U.S.A.
EPMI	2	Gas Lift	Malaysia
GUPCO	2	Gas Gathering	Egypt
GUPCO	3	Gas Lift	Egypt
Maraven	1	Gas Gathering	Venezuela
Maraven	3	Gas Injection	Venezuela
Maraven	4	Gas Lift	Venezuela
Maraven	2	Gas Processing Plant	Venezuela
Maraven	1	Pipeline	Venezuela
PEMEX	3	Gas Gathering	U.S.A.
Pennzoil	1	Gas Gathering	U.S.A.
Petrobras	2	Gas Lift	Brazil
Petrobras	4	Pipeline	Brazil
Petroleum Development of Oman	4	Gas Lift	Oman
Union Pacific Resources	3	Gas Gathering	U.S.A.
Union Texas Petroleum	2	Gas Gathering	U.S.A.
Unocal	2	Gas Lift	Indonesia
Three-section Refrigeration Compressor			
Liquid Energy Corporation	1	Refinery	U.S.A.
Four-section Natural Gas Compressor			
Petroleum Development of Oman	6	Gas Lift	Oman
Shell Gabon	3	Gas Injection	Gabon
Four-section Process Air Compressor			
Petrocel	1	Refinery	Mexico
Ten-stage C02 Process Compressor			
Borsig/Azot	1	Gas Processing Plant	Russia
Nowomoskowsk	1	Chemical Plant	Russia

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