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FLOW-QUIP ESD ACTUATORS PARTIAL CUSTOMER / PROJECT LIST

CLIENT / ENG.	PROJECT	LOCATION / DESCRIPTION
BP / MUSTANG ENGINEERING	HOLSTEIN AND MAD DOG PLATFORMS	14 ESD ACTUATOR UNITS MOUNTED ON 8", 10", 16" AND 24" ANSI 1500# SHUTDOWN VALVES FOR THE HOLSTEIN AND MAD DOG PLATFORMS ON THE GULF OF MEXICO DEEPWATER DEVELOPMENT PROGRAM.
PERENCO ECUADOR	OIL PIPELINE SHUTDOWN VALVES	9 SOLAR POWERED-STORED ENERGY UNITS MOUNTED ON 16" ANSI 1500# AND ANSI 2500# PIPELINE SHUTDOWN VALVES LOCATED IN REMOTE LOCATIONS IN ECUADOR.
EL PASO	CAMERON HWY OIL PIPELINE	A HIGH FLOW AND CAPACITY HYDRAULIC POWER UNIT WITH STORED ENERGY TO OPERATE A METERING SKID AND SHUTDOWN VALVES FOR THE CAMERON HIGHWAY OIL PIPELINE IN LOUISIANA.
EXXON-MOBIL	PIPELINE OVERPRESSURE PROTECTION	A 24 VDC LINEAR SE-SERIES SELF-CONTAINED FAIL-SAFE ACTUATOR MOUNTED ON A GATE VALVE IN MT. BELVIEU, TEXAS PROVIDING PIPELINE OVERPRESSURE PROTECTION. THE ACTUATOR HAS STORED ENERGY FOR 6 STROKES AND A PARTIAL STROKE FEATURE.
PETROBRAS / TECAP	D'NEST PIPELINE AUTOMATION	5 SOLAR POWERED-STORED ENERGY UNITS MOUNTED ON 18" ANSI 900# PIPELINE SHUTDOWN BALL VALVES LOCATED IN THE STATE OF AMAZONAS IN BRAZIL.
PETROBRAS	PEGASO	47 SOLAR POWERED-STORED ENERGY UNITS MOUNTED ON 18", 12" AND 6" ANSI 300# PIPELINE SHUTDOWN VALVES LOCATED IN SERGIPE AND ALAGOAS STATES OF BRAZIL.
REPSOL - YPF ARGENTINA	CENTRAL PIPELINE BLOCK VALVES AUTOMATION PROJECT	A TOTAL OF 39 STORED ENERGY ESD UNITS (11 SOLAR POWERED AND 28 AC POWERED), THE VALVE AUTOMATION SYSTEMS ARE INSTALLED ON THE YPF'S CENTRAL PIPELINE AND MOUNTED ON 16", 14" AND 12" ANSI 600# GATE VALVES.
OLEODUCTO TRASANDINO / FLUOR DANIEL ENG.	OTA/OTC PIPELINE TRANSANDIAN OIL PIPELINE	14 UNITS ON ANDES CRUDE OIL PIPELINE BETWEEN ARGENTINA AND CHILE. SOLAR AND WIND POWERED VALVE AUTOMATION SYSTEMS FOR 16" HIGH PRESSURE BALL VALVES.
AGIP / FLUOR DANIEL ENG.	ARCO - VILLANO	18 UNITS ON LIQUID PIPELINE IN ECUADOR. STORE ENERGY SOLAR POWERED ACTUATORS MOUNTED ON 12" AND 16" PIPELINE VALVES.
PEMEX (PGPB)	AUTOMATION OF THE NATIONAL NETWORK OF GAS AND LPG LINES	84 STORE ENERGY SOLAR POWERED SYSTEMS RETROFITTED ON 94 EXISTING VALVES ON THE LPG LINES OF PGPB THROUGHOUT MEXICO.
PHILLIPS 66	PHILLIPS BORGER ISOLATION VALVES PROJECT	10 UNITS LOCATED IN THEIR REFINERY IN BORGER TEXAS. ACTUATORS MOUNTED ON ISOLATION AND SHUTDOWN VALVES ON THE STORAGE AND COMPRESSOR FACILITIES.
TEXACO	TEXACO CONWAY ISOLATION VALVES PROJECT	OVER 18 UNITS LOCATED IN CONWAY KANSAS. ACTUATORS MOUNTED ON THE LPG UNDERGROUND STORAGE ISOLATION VALVES.
PETRO PERU	PETRO PERU STATION NO. 4 PROJECT	1 SOLAR POWERED VALVE AUTOMATION SYSTEM IN THE NORTHEASTERN JUNGLE OF PERU. RETROFITTED A 24" EXISTING GATE VALVE. FLOW-QUIP ALSO PROVIDED A SATELLITE COMMUNICATIONS AND INTERFACE WITH THEIR SYSTEM.
AL-FURAT PETROLEUM CO.	AL-FURAT PETROLEUM COMPANY PROJECT	OVER 30 ACTUATOR UNITS ON THE OMAR FIELD IN SYRIA. ACTUATORS ARE DC POWERED UNITS MOUNTED ON COMPRESSOR BLOCK VALVES.
PHILLIPS 66	PHILLIPS PIPELINE PUMP STATIONS	10 UNITS MOUNTED ON 6", 8" & 10" BALL VALVES LOCATED IN VARIOUS PUMP STATIONS IN TEXAS, OKLAHOMA, COLORADO, AND KANSAS.
CITGO	CITGO PETROLEUM PUMP STATIONS	OVER 6 UNITS MOUNTED ON 6" AND 8" BALL VALVES LOCATED IN VARIOUS PUMP STATIONS IN TEXAS AND LOUISIANA.
EXPRESS PIPELINE	EXPRESS PIPELINE VALVE AUTOMATION PROJECT	5 MODULATING HYDRAULIC POWER UNITS AND ACTUATORS MOUNTED ON 10", 16" AND 20" BALL VALVES LOCATED IN WYOMING AND CANADA.
PRIDE REFINING	FAIL-SAFE VALVE AUTOMATION PROJECT	A FLOW-QUIP ESD ACTUATOR MOUNTED ON A FISHER 8" V500 V-BALL VALVE AND 2 ESD UNITS MOUNTED ON 16" CAMERON BALL VALVES LOCATED IN ABILENE TEXAS.
CALIFORNIA COSTAL WATER AGENCY	CALIFORNIA COSTAL WATER AGENCY TANK-5 PROJECT	2 HYDRAULIC POWER UNITS AND ACTUATORS OPERATING 4 DEZURIK BUTTERFLY VALVES (16" AND 36") LOCATED IN SOUTHERN CALIFORNIA.
SAUDI ARAMCO	ARAMCO VALVE AUTOMATION PROJECT	7 HYDRAULIC POWER UNITS WITH STORE ENERGY TO OPERATE 48" BALL VALVES LOCATED IN SAUDI ARABIA.
CITY OF SOUTH GATE	SOUTH GATE PARK RESERVOIR	A VALVE ACTUATOR PACKAGE THAT INCLUDES A 20" DEZURIK PLUG VALVE AND A FLOW-QUIP ESD ACTUATOR WITH STORED ENERGY AND PLC CONTROLS.
KOCH OIL	KOCH OIL VALVE AUTOMATION PROJECT	A MODULATING HYDRAULIC POWER UNIT AND ACTUATOR SYSTEM OPERATES A 6" BALL VALVE LOCATED IN EAST ST. LOUIS.
CALIFORNIA DEPARTMENT OF WATER RESOURCES	CALIFORNIA DEPT. OF WATER RESOURCES EAST BRANCH EXTENSION	8 PLC CONTROLLED HYDRAULIC POWER UNITS WITH STORED ENERGY TO OPERATE BUTTERFLY AND BALL VALVES.