DRIVERS AND TURBINES

- SINGLE FLOW STEAM TURBINE
- DOUBLE FLOW STEAM TURBINE
- GAS TURBINE
- ELECTRIC MOTOR (SEPARATE FROM DRIVER UNIT)
- AIR MOTOR (SEPARATE FROM DRIVER UNIT)
- ELECTRIC GENERATOR
- DIESEL ENGINE

PUMPS

- HAND PUMP
- HORIZONTAL CENTRIFUGAL PUMP
- VERTICAL CANNED PUMP
- SUMP OR DRY PIT VERTICAL PUMP
- VERTICAL WET PIT PUMP
- SUBMERSIBLE VERTICAL PUMP
- AIR DIAPHRAGM PUMP

PUMPS (CONT.)

- POSITIVE DISPLACEMENT OR METERING PUMP
- ROTARY SCREW PUMP
- BOILER FEED PUMP (BARREL)
- BOOSTER FEED PUMP
- VACUUM PUMP
- GEAR PUMP
- VANE PUMP
- SCREW PUMP
- RECIPROCATING PUMP
- PROPORTIONING METERING PUMP

COMPRESSORS

- CENTRIFUGAL COMPRESSOR
- RECIPROCATING COMPRESSOR
- ROTARY COMPRESSOR

COMPRESSORS (CON'T)

- ROTARY SCREW AIR COMPRESSOR
- SCREW COMPRESSOR
- VAPOR COMPRESSOR
- LIQUID SEAL

MIXING COMPONENTS

- IMPELLER
- PADDLE
- PROPELLER
- MOTOR DRIVEN MIXER PROPELLER TYPE
- MOTOR DRIVEN MIXER TURBINE TYPE
- AGITATOR
- GENERIC BLENDER
- EJECTOR OR EDUCTOR MIXER

MATERIAL HANDLING

- COOLER OR CALCINER
- AIR INTAKE FILTER
- BELT SCALE
- CYCLONE
- DUST COLLECTOR
- OSCILLATING SCREEN
- VIBRATING SCREEN
- HOIST
- CAR PULLER
- LOADING ARM
- HOPPER

MATERIAL HANDLING (CONT.)

- 2-WAY DIVERTER GATE VALVE (PIPING)
- 3-WAY DIVERTER GATE VALVE (PIPING)
- MANUAL DAMPER (PIPING)
- MOTORIZED DAMPER (INSTRUMENTATION)
- MANUAL SLIDE GATE VALVE (HANDWHEEL, HAND, RACK AND PINION)
- PNEUMATIC WITH CYLINDER OPERATOR SLIDE GATE VALVE

CONVEYORS & FEEDERS

- SCREW CONVEYOR
- BELT CONVEYOR
- MOTOR DRIVEN RACK
- BUCKET ELEVATOR
- VIBRATING CONVEYOR
- ROLLER CONVEYOR
- DRAG CONVEYOR
- SCREW FEEDER
- BELT FEEDER
- VIBRATING FEEDER
- STAR FEEDER OR ROTARY AIRLOCK

LIQUID SEPARATION EQUIPMENT

- THICKENER
- WASTE WATER SEPARATOR
- CARTRIDGE OR BAG FILTER
- PLATE FILTER
- PACKED FILTER
- CPI SEPARATOR
- SKIMMER
- FROTH FLOATION CELL

STORAGE TANKS

- PRESSURE VESSELS VERTICAL (SHOWN) OR HORIZONTAL (TANKS, RECEIVERS, DRYERS, SEPARATORS, ETC.)
- PRESSURIZED GAS BOTTLE
- HORIZONTAL DRUM
- SPHERE
- 2-STAGE VERTICAL DRUM/DRYER
- TANK WITH INTERNAL BLADDER

STORAGE TANKS (CONT.)

- OPEN TOP TANK
- DIAPHRAGM ATMOSPHERIC STORAGE
- DOME ROOF TANK (MANHOLE)
- INTERNAL FLOATING ROOF TANK
- FLAT ROOF TANK
- SILO

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NO.	DATE	REVISIONS	BY	CHK	MECH SUPV	C&I SUPV	PD SUPV	PROJ ENGR
0	13 Feb 08	ISSUED FOR USE	VL	PHS	PHS	ZBK	-	BJH

SCALE | DESIGNED | DRAWN | PM WPE

BECHTEL POWER CORPORATION
FREDERICK, MARYLAND

CO2 KARSTO PROJECT

PIPING & INSTRUMENT DIAGRAM SYMBOLS AND LEGENDS

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