

## **ASSETS LOCATED AT GWF POWER SYSTEMS LP, SITE #2**

1600 LOVERIDGE ROAD, PITTSBURG, CA 94565

1 - 24 MW SINGLE UNIT FLUIDIZED BED PETROLEUM COKE STEAM TURBINE POWER PLANT, In Service 1989. System Major Components To Include;

### **COMBUSTER & RELATED EQUIPMENT:**

#### **BOILER**

1 - COMBUSTION POWER MODEL FiCIRC™ FINES CIRCULATING FLUIDIZED BED BOILER, S/N 016-4060 (1989), 245 mmBTU/hr, Petroleum Coke Fuel, With Convection Unit, Sectional Including Primary Super Heater, Secondary Super Heater, Economizer, 2-Hopper Bottom, 2-Piece 90° Connector, MSC Soot Blower Control Box, Combuster

1 - AIR PREHEATER SECTION

#### **START-UP BURNER**

1 - PEABODY ENGINEERING AIR PREHEAT START-UP BURNER, Natural Gas Fired, Nominal 70 mmBTU/Hr, Maxon Gas Control Valves, Forney Control System Panel

#### **COMBUSTER BED MATERIAL SUPPLY**

1 - BED MATERIAL SILO, Refractory Lined, Total Silo Volume 3550.86 Cu.Ft., Silo Diameter 14.9 Ft., Silo Straight Side Height 16 Ft., S.S. Cone Bottom Height 12.52 Ft., 4-Leg Stand Construction, Rigid Bottom

1 - AERZEN MODEL GMA 13.8 BED MATERIAL BLOWER, S/N 276809 (1985), Shaft Power 56.2 KW, Speed 2970 RPM, Q<sup>1</sup> - 42.2 m<sup>3</sup>/min, P<sup>1</sup> 1.0 bar, P<sup>2</sup> 0.6 bar, ΔP 600 mbar, 60-HP, 230/460 Volts, 1780 RPM, 364TE Frame, Aerzen Sound Proof Insulated Panel Enclosure

#### **FUEL FEED SYSTEM**

1 - TUTHILL MODEL 9016-46L2 DRY COKE (AUXILIARY) UNLOADING BLOWER, S/N 9016-46L2-B8110 B-89, 150-HP, 460 Volts, 1780 RPM, 445T Frame, Air Silencers, Insulated Panel Metal Weather Enclosure

1 - DRY COKE STORAGE SILO, Nominal Capacity 900-Tons, Total Silo Volume 37159 Cu.Ft., Silo Diameter 30 Ft., Silo Straight Side Height 39.27 Ft., S.S. Cone Bottom Height 24.66 Ft., 4-Leg Stand Construction, Top Mounted Bin Vent / Dust Collector, Live Bottom With Single Fuel Train Discharge

1 - CONTINENTAL SCREW CONVEYOR CORP. DRY COKE METERING SCREW CONVEYOR, S/N 213233, 12" Screw, Capacity 60-70 PCF Dry Coke, Speed 0-45 RPM, With Allen Bradley 1336 Plus II VFD

1 - DRY COKE BUCKET ELEVATOR, Estimated 75 Ft. Height

1 - TRIPLE S DYNAMICS MODEL RLDB57 VIBRATORY SCALPER / SPLITTER SCREEN, S/N C8820

1 - WET COKE UNLOAD SYSTEM, Including In-Ground Drive Over Dump Bin, Cross Feeder, Drag Type Transfer Conveyor & Wet Coke Bucket Elevator

1 - WET COKE STORAGE SILO, Nominal Capacity 125-Tons, Silo Diameter 12 Ft., Silo Straight Side Height

42 Ft., S.S. Cone Bottom Height 8.24 Ft., Rigid Cone Bottom With Dual Fuel Train Discharge  
2 - WET COKE METERING SCREW CONVEYORS, 12" Screw, Allen Bradley 1336 Plus II VFD's, Each Screw Discharges Into (2) Drag Type Combuster Delivery Transfer Conveyors  
1 - GENERAL ELECTRIC MODEL SPECTRA SERIES FUEL FEED AREA MOTOR CONTROL CENTER, CAT No. 0819X0593M01, 480 Volts, 3 Phase, 3 Wire, 60 Hertz, Amps Supply-600 / Section-600, 5-Section, Metal Weather Enclosure

#### **ADDITIVE SILOS**

1 - KAOLIN / GYPSUM STORAGE SILOS, (2) Separate Silos Vertically Stacked, Including (1) - Kaolin (Top) Silo, Nominal Capacity 1285.28 Cu.Ft., Silo Diameter 9.5 Ft., Silo Straight Side Height 3.55 Ft., Cone Bottom Height 3.55 Ft., Single Outlet With AC Motorized Rotary Airlock Valve, Top Mounted Bin Vent / Dust Collector, (1) - Gypsum (Bottom) Silo, Nominal Capacity 1665.49 Cu.Ft., Silo Diameter 9.5 Ft., Silo Straight Side Height 21 Ft., Cone Bottom Height 7.5 Ft., Single Outlet With AC Motorized Rotary Airlock Valve, Bin Vent / Dust Collector

#### **FEED AIR BLOWERS**

1 - DRESSER / ROOTS MODEL 1418 WHISPAIR FEED AIR BLOWER, S/N NA, Inlet Volume 5373 CFM, Inlet Temp. 150°F, Discharge Pressure 31.2 PSIA, Inlet Pressure 18.2 PSIA, Lufkin Model S800D Gearbox, Ratio 1.39:1, Service Factor 3.0, GE Energy Saver AC Motor, 350-HP, 4000 Volts, 1790 RPM, 5011LL Frame, Model 5KS511SN2039MHB, S/N XC435003, Insulated Panel Metal Weather Enclosure, Auxiliary Water Cooled Liquid Heat Exchanger, Air Silencers  
1 - NELSON INDUSTRIES MODEL ILF-18 UNIVERSAL FEED AIR BLOWER UNIVERSAL SILENCER, S/N 47128-89  
1 - GARDNER DENVER / SUTORBILT MODEL GAGMDPA MOTIVAIR BLOWER, S/N S118294, CAT No. 7MP, 40-HP, 230 / 460 Volt, 1765 RPM, 324T Frame, Air Silencers

#### **PARTICULATE ABATEMENT**

1 - CANTECH MODEL 240HP 1415 TRH 4-MODULE PNEUMATIC PULSE JET BAGHOUSE, S/N 83588-4, Type HT-HP, Each Module With Hopper Bottom Discharge, Isolation Control & Dampeners Model A1267-001-D 40" Dampener Valve & Model 923-002-D Hydraulic Actuator, 20" W.C. @ 450°F, Removable Module Lid Covers, Replaceable Filter Bags, Ground Mounted Control Panel With System Display  
1 - CM MODEL XL LODESTAR BAGHOUSE SERVICE HOIST, 4-Ton Electric Chain Hoist With Power Trolley, 4-Way Pendant Control

#### **SO2 ABATEMENT**

1 - LIMESTONE SORBENT SILO, Nominal Silo Capacity 300-Tons, Total Silo Volume 9038 Cu.Ft., Silo Diameter 15 Ft., Silo Straight Side Height 44.63 Ft., Cone Bottom Height 10.99 Ft., 4-Leg Stand Construction, Top Mounted Bin Vent / Dust Collector, Live Bottom With Single Outlet  
1 - LIMESTONE SORBENT FEED SYSTEM, With (1) 12" Metering Screw Conveyor With Allen Bradley 1336 Plus II VFD, (1) Bucket Elevator

## **NOX ABATEMENT**

1 - AMMONIA INJECTION SYSTEM, SNCR System, Valve Manifold Bank With (11) King 7700 Series Flowmeters

1 - TRINITY INDUSTRIES AQUEOUS AMMONIA TANK, S/N 117375 (1988), 11000-Gallon, Material SA612 & SA455, MAWP 265 PSIG @ 150°F, MDMT 10°F @ 265 PSIG / - 40°F @ 163 PSIG, Tank OAL 314.875", With (2) 5-HP Aqueous Ammonia Pumps, Valves & Piping

## **FORCED DRAFT FAN**

1 - HOWDEN FANS FORCED DRAFT FAN, 53000 ACFM, 1500-HP, MagneTek Louis Allis Type JTS AC Motor, 4000 Volts, 1780 RPM, 7310Z Frame, Beck Model 1294 AC Motorized Dampener Control, Romis 9000 Series Dual Vibration Monitor, Auxiliary Water Cooled Bearings

## **INDUCED DRAFT FAN**

1 - CHICAGO BLOWER INDUCED DRAFT FAN, 82846 ACFM, 500-HP, TECO-Westinghouse Type AEEA-FBUWI AC Induction Motor, 460 Volts, 1778 RPM, 5011C Frame, Forced Oil Bearing Lube System, Auxiliary Water Cooled Heat Exchanger

## **EMISSIONS**

1 - TELEDYNE INSTRUMENTS CONTINUOUS EMISSIONS MONITORING SYSTEM, S/N 660-00737-01/10 (2010), With (1) Allen Bradley Compact Logix L43 PLC With Panel View 550 Touch Screen Interface, (1) Servomax 1440 Gas Analyzer, (1) Teledyne Instruments NO / Nox / NO2 Sensor, (1) Teledyne Instruments CO Sensor, (1) Teledyne Instruments SO2 Sensor, (1) Teledyne Instruments Enhanced Remote Panel, (1) Shelter One Weather Resistant Enclosure

1 - HORIBA STACK GAS ANALYZER, With MAT-1000 O2 Correction Valve, Option Unit, Analyzer Unit, Kurz EVA 4000 Electronic Velocity Array, Metal Weather Enclosure

1 - HORIBA STACK GAS ANALYZER, With Option Unit, Analyzer Unit, Lear Siegler Model 1100M Opacity Monitor, Metal Enclosure Cabinet

1 - KURZ SERIES 155 ADAM MASS FLOW COMPUTER

1 - EXHAUST STACK

## **BED ASH REMOVAL**

1 - DENVER EQUIPMENT CO. MODEL HOLO-FLITE PROCESSOR BED ASH COOLING SCREW CONVEYOR, S/N NA, Auxiliary Water Cooled Jacket & Screw, Screw MAWP 200 PSI @ 650°F, Jacket MAWP 30 PSI @ 650°F, 2-HP Gear Reduced Sprocket Chain Drive

1 - BED ASH TRANSFER CONVEYOR, Drag Type, Inclined

1 - BED ASH SURGE HOPPER / SAMPLER BOX

1 - HAYES & STOLZ MODEL RS3A-0997 ROTARY SCALPER, S/N 2567-001

1 - QUINCY MODEL QSLP-30ACA3A P-TANK BLOWER, 30-HP ROTARY SCREW AIR COMPRESSOR, S/N 91966J, With 80-Gallon Vertical Air Receiver Tank

1 - HALLIBURTON P-TANK, MAWP 45 PSI @ 650°F, Nominal 100,000-Lb. Capacity

1 - FLY ASH STORAGE SILO, Nominal Capacity 400-Tons, Total Silo Volume 9721 Cu.Ft., Silo Diameter 20 Ft., Silo Straight Side Height 25.1771 Ft., Cone Bottom Height 16.45 Ft., 4-Leg Stand Construction, Drive-Under Load-Out Height, Load-Out Mezzanine Platform, Single Bottom Outlet With AC Motorized Rotary Airlock Valve, Truck Loading Nozzle Spout, With (2) Roots 25-HP Vacuum Transport Blowers, Top Mounted Bin Vent / Dust Collector

### **STEAM TURBINE GENERATOR, STEAM TURBINE AUXILIARIES, STEAM CIRCULATION EQUIPMENT:**

1 - ABB STEAM TURBINE GENERATOR PLANT, Plant No. B002373, (1989), Condensing Turbine VAX HT10/LT10, Rated Output 20495 kW, Inlet Pressure 1480 psig, Inlet Temperature 996°F, HP Turbine HT10, Rated Speed 9964 RPM, HP Turbine Gear TG56, Generator GBA 1000 LM, Rated Speed 1800 RPM, LP Turbine Gear TG 50, LP Turbine LT10, Rated Speed 4984 RPM, System Component Breakdown To Include The Following:

#### **STEAM TURBINE**

1 - ABB VAX MODEL HT 10 HIGH PRESSURE STEAM TURBINE, Inlet Pressure 1480 PSIG, Inlet Temperature 996°F, Rated Speed 9964 RPM, Steam Extraction

1 - BHS MODEL TG 56 HIGH PRESSURE TURBINE GEARBOX, S/N 515835/1 (1988), Power 10210 kW, Speeds 9964 / 1800 RPM, Ratio 5,536, Service Factor 1,1

1 - ABB VAX MODEL LT 10 LOW PRESSURE STEAM TURBINE, Rated Speed 4984 RPM, Steam Extraction

1 - BHS MODEL TG 50 SPEZ LOW PRESSURE TURBINE GEARBOX, S/N 515836/1 (1988), Power 11380 kW, Speeds 4985 - 1800 RPM, Ratio 2,769:1

#### **STEAM TURBINE AUXILIARIES**

1 - STEAM TURBINE HYDRAULIC OIL SYSTEM, With (2) 10-HP Vickers Pumps, 48"x30"x24"H Holding Reservoir, (2) Replaceable Cartridge Canister Filters, Nitrogen Gas Cylinder, Auxiliary Water Cooled Heat Exchanger, Skid Frame Base

1 - STEAM TURBINE LUBE OIL SYSTEM, With (2) 20-HP AC & (1) 3-KW DC Pumps, 60"x72"x72"H Holding Reservoir, Auxiliary Water Cooled Heat Exchangers, Steel Skid Frame Base

1 - C.C. Jensen MODEL PWTU-27/108-M82 FINE FILTER LUBE OIL SYSTEM PURIFIER / FILTER, S/N 72-88-10-03

1 - KOCH ENGINEERING MODEL BD-PRF-MK111 LUBE OIL SYSTEM MIST ELIMINATOR, S/N F39704-00, Type 19x42, Material 304, With Entex Fabrication Collector Hopper, Atmospheric Design Pressure, Ambient Design Temperature

#### **GENERATOR**

1 - ASEA MODEL GBA 1000 LM SYNCHRONOUS GENERATOR, S/N 7744077 (1989), 24118 kVA x 0.85 (24.1 MVA), Rated Output 20,495 kW, 1800 RPM, MCR - 13800V, Y 1009A, Excitation: 98V 6,4A, Temp Rise: Stator CL.B Rotor CL.B, ANSI C 50.10, 38000 kg

1 - BABCO MODEL HVS-3 GENERATOR CONNECTION SWITCHGEAR UNIT, S/N 5-16923-3 (1989), Volts

13.8 KV, Amps 1600, Hz 60, Poles 3

1 - GUYAN MACHINERY MODEL GR-15638-03 NEUTRAL GROUNDING RESISTOR, S/N 887431, Volts 8000 L-N, Ohms 80.0 25° C, Amps 100, Time 10 Sec., With 50-5A C.T. and Outdoor Enclosure

### **CONDENSER**

1 - HOLTEC STEAM CONDENSER, S/N 8-1475 (1988), Titanium Tubes, Shell: MAWP F.VAC / 15 PSI @ 32 - 300°F, Tube: MAWP 60 PSI @ 32 - 200°F, Steam Bypass

### **CONDENSATE PUMPS**

2 - GOULDS MODEL VIC-T VERTICAL CONDENSATE PUMPS, SIZE 6x8x16x11RAHC, 252 GPM, 431 Head Ft., Reliance AC Motor, 50-HP, 460 Volts, 1775 RPM, 326LP Frame; Pump # 1 - Pump S/N 310279P-3, Motor S/N 1MAF39441-G3-YP; Pump # 2 - Pump S/N 310279P-4, Motor S/N 1MAF39441-G4-YP

### **BOILER FEEDWATER PUMPS**

2 - SULZER BINGHAM MODEL 3 x 6 x 9 MSD-B BOILER FEEDWATER PUMPS, 9 Stage, 372 GPM, 4495 Head Ft., 3560 RPM, MagneTek Louis Allis Type WPIIX AC Motor, 600-HP, 4160 Volts, 3580 RPM, 7110CS Frame; Pump # 1 - Pump S/N NA, Motor S/N 8-J44755002; Pump # 2 - Pump S/N IC939, Motor S/N 8-J44755004

### **EMERGENCY BOILER FEEDWATER PUMP**

1 - WHEATLEY MODEL HP-100M EMERGENCY BOILER FEEDWATER PUMP, S/N 12371, Triplex Plunger Pump, Size 2" x 4-1/2" Stroke, 91 GPM @ 2100 PSI, MAWP 3180 PSI, Max. Speed 500 RPM, 75-HP, 230/460 Volts, 1175 RPM, 405T Frame

### **BOILER CIRCULATING WATER PUMPS**

3 - UNION BOILER CIRCULATING WATER PUMPS, Size 6x8x15 HTS, 2213 GPM, 215 Head Ft., 1750 RPM, Maximum W.P. 1800 PSI @ 604°F, Reliance Electric XT Extra Tough Duty Master AC Motor, 125-HP, 460 Volts, 1785 RPM, 444TS Frame; Pump # 1 - Pump S/N NA, Motor S/N 1MAF36744-G9-SP; Pump # 2 - Pump S/N NA, Motor S/N 1MAF36744-G2-SP; Pump # 3 - Pump S/N 890701-201, Motor S/N 1MAF36744-G8-SP

### **STEAM DEAERATOR**

1 - COCHRANE ENVIRONMENTAL SYSTEMS MODEL CHICAGO HEATER STEAM DEAERATOR, S/N 2024-88 (1988), MAWP FV-100 PSI @ 450°F, MDMT -20°F @ 100 PSI

### **STEAM DRUM**

1 - DYNA-THERM CORP. STEAM DRUM, S/N NA (1988), Capacity 165,750 #/Hr @ 1577 PSIG, MAWP 1660 PSI @ 650°F, Test Pressure 2490 PSIG, Mat'l SA516-70, 54" Diameter x 30'-0" Length

## **BOILER FEEDWATER HEATERS**

1 - SUTHERLAND INDUSTRIES HIGH PRESSURE BOILER FEEDWATER HEATER, S.W. No. 3.88.06.53643.2, Shell: MAWP 300 PSIG @ 640°F Max. Temp., Tube: MAWP 2200 PSIG @ 450°F Max. Temp.

1 - SUTHERLAND INDUSTRIES LOW PRESSURE BOILER FEEDWATER HEATER, S.W.No. 3.88.06.53642.1 (1988), Shell: MAWP 50 PSIG & VAC @ 300°F Max., Tube: MAWP 240 PSIG @ 300°F Max.

1 - SUNFLO PUMP MODEL P2AHR Z LOW PRESSURE BOILER FEEDWATER HEATER PUMP, S/N 91447352-00, Series P2000 Pump, 25 GPM, 300 Hd.Ft., 7.5-HP, 230/460 Volt, 3510 RPM

## **STEAM SYSTEM AUXILIARIES**

1 - R.A.S. FLASH TANK, S/N 88-512-1 (1988), W.P. Shell 50 PSI @ 400°F and FV, MDMT -20°F @ 50 PSI, With (2) 1.5 HP Flash Tank Pumps

1 - BLOKSMA MODEL 320 GLAND STEAM CONDENSER, S/N 882310 (1988), Shell: Design Pressure 1.0 barga, Test Pressure 1,5 barga, Design Temperature 216°C; Tubes: Design Pressure 16.6 barga, Test Pressure 25.0 barga, Design Temperature 100°C

1 - NASH-KINEMA MODEL 1ST8-72 / 1ST8-36 AIR EJECTOR PACKAGE, S/N 86-17B1/86-17B2 (1988), Shell: Design Pressure FV & 100 PSI @ 620°F, Tubes: Design Pressure 240 PSI @ 210°F

1 - PACIFIC PIPE CO. TURBINE AREA ATMOSPHERE DRAIN TANK, S/N 223670-F (1988), Nominal Capacity 600-Gallons, Atmospheric Design Pressure, Design Temperature 130°F, Material A36 Carbon Steel, Diameter 4'-6" x Height 5'-0", Insulated Jacket

1 - TURBINE AREA MAIN SAMPLING STATION

1 - TURBINE AREA CHEMICAL MIXING STATION, With Stainless Steel Mixing Tank & Mixer, (2) Stainless Steel Pumps, Injection Meters

1 - TURBINE / GENERATOR STEEL SUPERSTRUCTURE, With Structural Steel, Mezzanine Platform, Steam Piping, Valves

## **COOLING TOWER PROCESS WATER COOLING**

3 - GOULDS MODEL VTT-FF VERTICAL COOLING WATER RECIRCULATION PUMPS, 5993 GPM, 38.1 Head Ft., Size 18x20 CLC / 1STG, Reliance Electric AC Motor, 100-HP, 460 Volts, 1185 RPM, 444T Frame; Pump # 1 - Pump S/N 310278P-6, Motor S/N NA; Pump # 2 - Pump S/N NA, Motor S/N NA; Pump # 3 - Pump S/N NA, Motor S/N NA

3 - COOLING TOWER FANS, Two-Speed Fans, 40/10-HP

1 - PACIFIC PIPE CO. COOLING TOWER SULFURIC ACID FEED TANK, Nominal Capacity 2500-Gallons, Atmospheric Design Pressure, Design Temperature 130°F, Nominal Dimensions 6'-0" Diameter x 12'-0" High, Material A36 Carbon Steel

1 - COOLING TOWER SAMPLING STATION, With (2) Rosemont Analytical SoluComp II Programmable Controllers

## **AUXILIARY WATER COOLING SYSTEM**

2 - GOULDS MODEL 3996 AUXILIARY COOLING WATER CIRCULATION PUMPS, 525 GPM, 92 Head Ft., Size 4x6-13, Impellor Diameter 9.62", GE Severe Duty AC Motor, 40-HP, 230/460 Volts, 1780 RPM, 284TC Frame, Pump # 1 S/N 708D512.1, Pump # 2 S/N 708D512.2

1 - PACIFIC PIPE CO. AUXILIARY COOLING WATER SURGE TANK, S/N 223670-B (1989), Nominal Capacity 3760-Gallons, Atmospheric Design Pressure, Design Temperature 130°F, 8'-0" Diameter x 10'-0" Height, Material A36 Carbon Steel

1 - ALFA LAVAL MODEL A15-BFL AUXILIARY COOLING WATER PLATE TYPE HEAT EXCHANGER, S/N 30100-70653, MAWP 80 PSI @ 200°F, Surface Area 928.50 Sq.Ft., H2O Media

1 - ALFA LAVAL MODEL A15-BFL AUXILIARY COOLING WATER PLATE TYPE HEAT EXCHANGER, S/N 30100-70652, MAWP 80 PSI @ 200°F, Surface Area 928.50 Sq.Ft., H2O Media

1 - ALFA LAVAL MODEL A15-BFL AUXILIARY COOLING WATER PLATE TYPE HEAT EXCHANGER, S/N 30100-70648, MAWP 80 PSI @ 200°F, Surface Area 928.50 Sq.Ft., H2O Media

1 - MUELLER AUXILIARY COOLING WATER DUPLEX STRAINER / FILTER

## **WATER DEMINERALIZATION SYSTEM**

1 - IONICS ULTRAPURE REVERSE OSMOSIS WATER PURIFICATION SYSTEM, S/N 2840-0020, With (1) Main Skid Including Control Panel, Instrument Panel With Thornton 200 Flow Control & Thornton 200CR Conductivity Control, 7-1/2-HP Pump System, (1) Marlo 2-Chamber Regeneration Skid, (1) 8-Canister Media Filter Bank With Thornton 200CR Controller, Antiscalent & Chlorine Scavenger Tanks With Chemical Injection Meters

1 - EATON METAL PRODUCTS DEMINERALIZED WATER STORAGE TANK, S/N 2052-90020 (1989), 16000 Gallons, Atmospheric Design Pressure, Design Temperature 140°F, 14'-0" Diameter x 16'-0" Height, Material A36 Carbon Steel

2 - SUNFLO SUNDYNE # 1 & # 2 DEMINERALIZED WATER TRANSFER PUMPS, 3-HP, 230/460 Volt, 1735 RPM, 1825D Frame

1 - GOULDS MODEL 3996 # 3 EMERGENCY DEMINERALIZED WATER TRANSFER PUMP, S/N 708D509, 50 GPM, 326 Head Ft., Size 1.5 x 2-10, 8.37 Impellor Diameter, Material 316SS, GE Vertical AC Motor, 20-HP, 230/460 Volts, 3545 RPM, 256T Frame

1 - PORTALS / LA WATER TREATMENT CORP. WATER DEMINERALIZATION SYSTEM, Including; (1) Main Control Panel, (1) Allen Bradley Centerline Motor Control Center, (2) Demineralization Trains, (1) Acid Dilution Station, (1) Caustic Dilution Station, (1) Neutralization Station, \*NOTE: This System Is Not In Service And May Not Be Complete Or Operational\*

1 - PORTALS / LA WATER TREATMENT CORP. SAND FILTER SYSTEM, With (3) Filter Vessels, \*NOTE: Not In Service

## **EMERGENCY STANDBY DIESEL GENERATOR**

1 - CATERPILLAR MODEL SR-4 475 KW STANDBY AC POWER GENERATOR, S/N 6EA01368 (1989), Arrangement No. 5N8668, Generator Set: 594 KVA, 475 KW, .8 COS Ø, 60 Hertz, Standby Rating; Generator Rating: 3 Phase, 10 Wire, WYE, Series Connection, Generator: 480 Volts, 714 Amps;

Excitation: 43 Volts, 8.9 Amps, 586 Frame, 1800 RPM, Caterpillar Model 3412 V-12 Diesel Engine, 723-HP, Metal Weather Resistant Enclosure With Fuel Oil Tank Skid Base

### **DIESEL SUPPLY SYSTEM**

1 - DIESEL FUEL SUPPLY SYSTEM With (1) 40,000-Gallon Storage Tank, Above Ground, Carbon Steel, (2) 10-HP AC Delivery Pumps With Filter/Strainer

### **PLANT COMPRESSED AIR SUPPLY**

3 - ATLAS COPCO MODEL GA-355 ROTARY SCREW AIR COMPRESSORS, 75-HP, 274 CFM, 156 PSIG, 3600 RPM, 480 Volts, Water Cooled, Elektronikon Microprocessor Control; Compressor # 1 S/N ARP888466 (1988); Compressor # 2 S/N ARP888417 (1988); Compressor # 3 S/N ARP888416 (1988)

2 - ZEKS MODEL 200HPSIHW HYDRONIX DESICCANT TYPE COMPRESSED AIR DRYERS, 200 CFM @ 100 PSI @ 100°F

1 - PACIFIC PIPE CO. VERTICAL COMPRESSED AIR RECEIVER TANK, S/N 940, Capacity 485 CF Air, MAWP 265 PSIG @ 150°F, 3'-6" Diameter x 10'-0" Height

### **MAIN SWITCHYARD**

1 - ABB ELECTRIC GSU POWER TRANSFORMER, S/N A0791X, HV 120,000 GRD Y / 69280, LV 13800, MVA 12/20 @ 55°C Temp. Rise, MVA 13.4/22.4 @ 65° Temp. Rise, Class OA/FA/FA, 3-Phase, 60 Hz

1 - ASEA ELECTRIC TRANSGARD TRANSFORMER PROTECTOR, With (3) Breaker Switches

1 - CURRENT TRANSFORMERS - POTENTIAL TRANSFORMERS (CTPTs), Including (3) Westinghouse & ABB Single Phase Relaying & Metering Units, With Galvanized Steel A-Frame Superstructure

### **OUTDOOR TRANSFORMERS**

1 - RTE SMALL POWER 480 VOLT SUBSTATION TRANSFORMER, S/N 896001063, CAT No. 22LA15C12S, Class OA-FA, KVA - 2000/2240-2300/2576, H.V. Volts 13800, L.V. Volts 480Y / 277, 3-Phase, 60 Hz

1 - RTE SMALL POWER 4160 VOLT SUBSTATION TRANSFORMER, S/N 896001935, CAT No. 55AA17C51L, Class OA-FA, KVA - 3750/4200-4687/5250, H.V. Volts 13800, L.V. Volts 4160Y / 2400, 3-Phase, 60 Hz

1 - INTERNATIONAL TRANSFORMER CORP. MODEL HV05H TUL 500 KVA DRY TYPE POWER TRANSFORMER, S/N NA, CAT No. ARO500C0S3HJ-I, Voltage 4160 - 460Y/266, 3 Phase, 60 Hertz

### **MOTOR CONTROL ROOM**

1 - BAILEY MODEL NETWORK infi90 DISTRIBUTED CONTROL SYSTEM, With Main Digital Control Center, Remote Data Collection & Transmitter Stations, Remote # 1 Boiler Area, Remote # 2 Turbine Area, Remote # 3 BOP Area, Remote # 4 Ash Area

1 - KA.1 TURBINE CONTROL PANEL

1 - YA.1 TURBINE CONTROL PANEL

1 - CGI SYSTEMS 2-PANEL RELAY CONTROL, #PL-90011-G, G1 Relay Panel, G2 Relay / Meter Panel

1 - HB/HA 2-PANEL OVERCURRENT RELAY CONTROL PANEL



- 1 - ABB 3-PANEL POWER SWITCHGEAR, S.O. # 48-60273C1, Volts 15000, Freq. 60 Hz
- 1 - SIEMENS 4-PANEL MEDIUM VOLTAGE MOTOR CONTROL CENTER, S/N 09-0430-48754-03, Part No. 25-316-874-501 & 502, 4160 Volts, 3 Phase, 60 Hertz, Horizontal Bus Continuous Rating 1200 Amps
- 1 - SIEMENS MODEL MC-9002-A SITE II 11-PANEL MOTOR CONTROL CENTER, Volts 460, Phase 3, Hertz 60, Horizontal & Vertical Short Circuit Current Rating 65 KA, 1600 Amp Horizontal Bus Continuous Rating, MCC Part No. 9-001-54191-07/08, S/N 01-1464-54191-07/08
- 1 - SIEMENS MODEL MC-9003-B SITE II 11-PANEL MOTOR CONTROL CENTER, Volts 460, Phase 3, Hertz 60, Horizontal & Vertical Short Circuit Current Rating 65 KA, 1600 Amp Horizontal Bus Continuous Rating, MCC Part No. 9-001-54191-08/07, S/N 01-1464-54191-08/07
- 1 - SIEMENS MODEL MC-9004-E SITE II 6-PANEL MOTOR CONTROL CENTER, Volts 460, Phase 3, Hertz 60, Horizontal & Vertical Short Circuit Current Rating 65 KA, Horizontal Bus Continuous Rating 800 Amps, MCC Part No. 9-001-54191-09, MCC S/N 01-1464-54191-09
- 1 - CUTLER-HAMMER ID FAN SOFT START SYSTEM, Easy-Start ES Solid State Reduced Voltage Motor Starter, RTDS / Bearing Monitor Cabinet
- 1 - PYROTRONICS HALON FIRE EXTINGUISHER SYSTEM, With Control Panel, (2) Model Pyr-A-Lon 1301 Halogenated Agent Extinguishing System Canisters
- 1 - LaMARCHE MODEL A12B-100-130V-C3 CONSTAVOLT FLOAT BATTERY CHARGING SYSTEM, S/N N-8873-3, Input Volts 480 VAC, AC Amps 35, Phase 3, Hz 50/60, DC Amps 100, DC Volts 130V, No. Cells 60, Cell Type LA
- 1 - BATTERY CHARGING CABINET, With (40) Power Safe 6V105 Batteries, Nominal Battery Capacity 6V, Float Voltage 2.265 Vpc
- 1 - UPS BATTERY BACK UP SYSTEM
- 1 - MOTOR CONTROL ROOM ANCILLIARY EQUIPMENT Including Dry Type Transformers, Breaker Panels, etc
- 1 - CGI SYSTEMS OPERATOR'S CONTROL CONSOLE
- 1 - OPERATIONS CONTROL DESK, With Monitor Screens, PC's, Remote Camera System

#### **MAINTENANCE & MISCELLANEOUS**

- 1 - MAINTENANCE SHOP ACCESSORIES, Including Wilton Drill Press, (2) Milwaukee Double End Grinders, Parts Washer, Heavy Duty Steel Welding Table With Wilton Vise, Ridgid 535 Pipe Threader, PowCon 300SM Welder, Hypertherm PowerMax 800 Plasma Cutter, DeWalt Abrasive Saw, Phoenix Dry Rod Oven, WelBilt 12-Ton Shop Press, Knaack Gang Boxes, Tool Boxes, Hand Tools, Power Tools, Assorted Shop Tools, Chain Falls, Come-A-Longs, Rigging, Nuts, Bolts, Assorted Hardware, Service Tools & Repair Parts, Pipe Fittings, Valves, Seals, Labconco Lab Fume Hood, VWR Electric Lab Oven, Sieve Screens, Toledo Platform Scale, Misc. Lab Equipment, Misc. PPE, DeVilbiss PRO 4000 5-HP Vertical Tank Mounted Shop Air Compressor, Ladders, Flammable Material Storage Cabinets, Self-Dumping Hopper, etc.
- 1 - LINCOLN MODEL IDEALARC R3R-300 VARIABLE VOLTAGE DC WELDING POWER SUPPLY, S/N AC-690708

## **FORKLIFT & ATTACHMENTS**

1 - HYSTER MODEL H60XM 5600-LB. CAPACITY FORKLIFT, S/N H177B42446A, Diesel, 5600-Lb. Capacity @ 164.2" Lift, 4750-Lb. Capacity @ 240.9" Lift, Solid Cushion Tires - Dual 7.00x12/15.00 FR / 6.500x10/5.00 RR, Side Shift, 48" Forks, 3-Stage Mast, 109" Mast Height

1 - ECOA MODEL PIV-JIB TELESCOPIC FORKLIFT JIB BOOM ATTACHMENT

1 - FORKLIFT WORK BASKET ATTACHMENT

1 - BARREL GRAB ATTACHMENT