

**ASSETS LOCATED AT GWF POWER SYSTEMS LP, SITE #3**  
1900 WILBUR AVENUE, ANTIOCH, CA

1 - 22 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 020-4070 (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

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, With Kock-John Zink Co. / Todd Combustion Model T0975XG0X2600X Burner, S/N 926938, Control Panel

**COMBUSTER BED MATERIAL SUPPLY**

1 - BED MATERIAL SILO, 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, Refractory Line

1 - AERZEN MODEL GMA 13.8 BED MATERIAL BLOWER, S/N 282180 (1986), Shaft Power 38.0 KW, Speed 2200 RPM, Q<sup>1</sup> - 29.9 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 (AUXILLIARY) UNLOADING BLOWER, S/N 9016-46L2-88134-L89, 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 36980 Cu.Ft., Silo Diameter 35 Ft., Silo Straight Side Height 23.00 Ft., S.S. Cone Bottom Height 27.47 Ft., 6-Leg Stand Construction, Top Mounted Bin Vent / Dust Collector, Live Bottom With Dual Fuel Train Discharge, Pneumatic Actuated Diverter

2 - DRY COKE FUEL FEED TRAINS, Each Fuel Train Consisting Of; (1) Continental Screw Conveyor Variable Speed Metering Screw Conveyor, 12" Screw, Capacity 11 TPH, Design 60-70 PCF, Allen Bradley 1336 Plus II VFD, (1) Transfer Screw Conveyor, (1) Bucket Elevator, (1) Vibratory Screen

1 - DRY COKE FUEL SURGE BIN, Nominal 15-Ton, (6) Discharge Cones With Manual Slide Gate Shut-Off & Pneumatic Feeders

6 - SIMON-MACAUBER MODEL 8/8/5 LOCK VESSEL INJECTION DRY COKE FUEL FEEDERS, Design Temperature 325°F Max - 14°F Min., Design Pressure 15 PSIG H.T.P. 100 PSIG, Volume 230-Lbs., # 1 S/N 5266, # 2 S/N 5260, # 3 S/N 5258, # 4 S/N 5262, # 5 S/N 5256, # 6 S/N 5264

1 - APV DRY COKE SIMON-MACAUBER VARIABLE FREQUENCY DRIVE CONTROL PANEL, With (6) Allen Bradley 1336 Plus II VFD's

2 - CALIFORNIA CLEAN AIR INC. FUEL TRANSPORT SYSTEM DUST COLLECTORS, S/N'S 572-1, 572-2, Pneumatic Pulse Jet Type, Gravity Drop Bottom Hoppers With Meyer 8" AC Motorized Rotary Airlock Valve, & 2-Way Pneumatic Splitter

#### **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., S.S. 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 1018 RAS WHISPAIR FEED AIR BLOWER, FAB # 1, Inlet Volume 3510 CFM, Inlet Temp. 150°F, Discharge Pressure 11.0 PSIG, Inlet Pressure 3.0 PSIG, GE Energy Saver AC Motor, 350-HP, 4000 Volts, 1785 RPM, 5011LL Frame, Model 5KS511SK2043MHB, Insulated Panel Metal Weather Enclosure, Auxiliary Water Cooled Liquid Heat Exchanger, Air Silencers

1 - DRESSER / ROOTS MODEL 1018 RAS WHISPAIR FEED AIR BLOWER, FAB # 2, Inlet Volume 3510 CFM, Inlet Temp. 150°F, Discharge Pressure 11.0 PSIG, Inlet Pressure 3.0 PSIG, GE Energy Saver AC Motor, 350-HP, 4000 Volts, 1785 RPM, 5011LL Frame, Model 5KS511SK2043MHB, Insulated Panel Metal Weather Enclosure, Auxiliary Water Cooled Liquid Heat Exchanger, Air Silencers

1 - FEED AIR BLOWER AIR INTAKE FILTER / SILENCER

1 - GARDNER DENVER SUTORBILT MODEL GAGMDPA MOTIVAIR BLOWER, S/N S216835, CAT No. 7MP, 50-HP, 230 / 460 Volt, 1765 RPM, 326T Frame, Air Silencers, (Universal Blower Co. S/N 9363H102)

#### **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 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 7329 Cu.Ft., Silo Diameter 15 Ft., Silo Straight Side Height 37.18 Ft., S.S. Cone Bottom Height 6.93 Ft., 4-Leg Stand Construction, Top Mounted Bin Vent / Dust Collector, Live Bottom With Single Outlet

2 - SIMON-MACAWBER MODEL 16/8/6 LIMESTONE SORBENT LOCK VESSEL INJECTION FEEDERS, S/Ns 5296, 5294, Design Pressure 15 PSI, H.T.P. 22 PSI, Design Temp. 212°F Max. 14°F Min., Volume 455-Lbs., Injector Pneumatic Control Panel

1 - APV SORBENT SIMON-MACAWBER VARIABLE FREQUENCY DRIVE CONTROL PANEL, With (2) Allen Bradley 1336 Plus II VFD's

## **NOX ABATEMENT**

1 - AMMONIA INJECTION SYSTEM, SNCR System, Valve Manifold Bank With (18) King 7700 Series Flowmeters

1 - TRINITY INDUSTRIES AQUEOUS AMMONIA TANK, S/N 117662 (1988), 11000-Gallon, Material SA612 & SA455, MAWP 265 PSIG @ 150°F, MDMT 10°F @ 265 PSIG / - 40°F @ 163 PSIG, Tank OAL 314.875", w/ (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-FB004 AC Induction Motor, 460 Volts, 1778 RPM, 5011B Frame, Forced Oil Bearing Lube System, Auxiliary Water Cooled Heat Exchanger

## **EMISSIONS**

1 - TELEDYNE INSTRUMENTS CONTINUOUS EMISSIONS MONITORING SYSTEM, S/N 660-00643-07/07 (2007), 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

2 - HORIBA STACK GAS ANALYZERS, Metal Weather Enclosure, Incomplete

1 - KURZ MODEL 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 - LIME RECLAMATION HYDRATION SCREW AUGER, 16" Diameter, Estimated 20' Length, Water Spray Injection, AC Motorized Gearbox Drive

1 - GARDNER DENVER MODEL TSCDL9L7 RECLAIMED LIME TRANSPORT BLOWER, S/N S317284, 50-HP, 230/460 Volt, 1770 RPM, 326T Frame, Air Silencers

1 - HAYES & STOLZ MODEL RS3A-0997 ROTARY SCALPER, S/N 2567-003

1 - GARDNER DENVER P-TANK BLOWER, 50-HP 3-STAGE RECIPROCATING AIR COMPRESSOR, Model & S/N NA, Open Skid Base With Vertical Air Receiver Tank

1 - HALLIBURTON P-TANK, MAWP 45 PSI @ 650°F

1 - FLY ASH STORAGE SILO, Nominal Capacity 400-Tons, Total Silo Volume 11009.56 Cu.Ft., Silo Diameter 24 Ft., Silo Straight Side Height 18.63 Ft., S.S. Cone Bottom Height 16.42 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:**

### **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 515869/2 (1988), Power 10210 kW, Speeds 9964 / 1800 RPM, Ratio 5,536, Service Factor 1,5
- 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 515870/1 (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 FINE-FILTER LUBE OIL SYSTEM PURIFIER / FILTER
- 1 - KOCH ENGINEERING MODEL BD-PRF-MK111 LUBE OIL SYSTEM MIST ELIMINATOR, S/N F39704-03, 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 7782208, 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 5-17393 (1989), Volts 13.8 KV, Amps 1600, Hz 60, Poles 3
- 1 - GUYAN MACHINERY MODEL GR-15638-03 NEUTRAL GROUNDING RESISTOR, S/N 891983, 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 310051 (1989), Titanium Tubes, Shell: MAWP F.VAC / 15 PSI @ 32-300°F, Tube: MAWP 60 PSI @ 32-300°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 310408P-2, Motor S/N 1MAF43190-G1-RQ; Pump # 2 - Pump S/N 310408P-3, Motor S/N 1MAF43190-G2-RQ

### **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, Hydro Test 3000 PSIG, MagneTek Louis Allis Type WPIIX AC Motor, 600-HP, 4160 Volts, 3580 RPM, 7110CS Frame; Pump # 1 - Pump S/N ID175, Motor S/N 9-J44788003; Pump # 2 - Pump S/N ID177, Motor S/N 9-J44788001

### **EMERGENCY BOILER FEEDWATER PUMP**

1 - WHEATLEY MODEL HP-100M EMERGENCY BOILER FEEDWATER PUMP, S/N 16463, Triplex Plunger Pump, Size 2" x 4-½" 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 1MAF44144-G2-TQ; Pump # 2 - Pump S/N NA, Motor S/N 1MAF44144-G1-TQ; Pump # 3 - Pump S/N NA, Motor S/N 1MAF44144-G3-TQ

### **STEAM DEAERATOR**

1 - COCHRANE ENVIRONMENTAL SYSTEMS MODEL CHICAGO HEATER STEAM DEAERATOR, S/N 2054-88 (1988), MAWP FV-100 PSIG @ 450°F, MDMT -20°F @ 15/100 PSIG

### **STEAM DRUM**

1 - DYNA-THERM CORP. STEAM DRUM, S/N 89-242 (1989), 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. 3.88.06.53672-2, Shell: MAWP 300 PSIG @ 640°F Max. Temp., Tube: MAWP 2200 PSIG @ 450°F Max. Temp., Shell MDMT 280°F @ 10 PSIG, Tube MDMT 225°F @ 10 PSIG

1 - SUTHERLAND INDUSTRIES LOW PRESSURE BOILER FEEDWATER HEATER, S/N NA, MAWP: Shell 50/FV @ 300°F, Tube 240 PSI @ 300°F, MDMT: Shell 70°F @ 13 PSIG, Tubes 65°F @ 13 PSIG

1 - SUNFLO PUMP MODEL P2AHR Z LOW PRESSURE BOILER FEEDWATER HEATER PUMP, Series P2000 Pump, 7.5-HP, 230/460 Volt, 3510 RPM

### **STEAM SYSTEM AUXILIARIES**

1 - R.A.S. FLASH TANK, S/N 89-550-2 (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, 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 1BEMB AIR EJECTOR PACKAGE, S/N 98-220-A1 & A2 (1989), Design Pressure: Shell FV 100 PSI @ 620°F, Tubes 248 PSI @ 210°F; MDMT: Shell -20°F @ FV 100 PSI, Tubes -20°F @ 240 PSI

1 - PACIFIC PIPE CO. TURBINE AREA ATMOSPHERE DRAIN TANK, 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 / 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, 83.1 Head Ft., Size 18x20 CLC / 1STG, Reliance Electric AC Motor, 100-HP, 460 Volts, 1185 RPM, 444T Frame; Pump # 1 - Pump S/N 310409P-4, Motor S/N 1MAF43189-G4-RQ; Pump # 2 - Pump S/N 310409P-5, Motor S/N 1MAF43189-G3-RQ; Pump # 3 - Pump S/N 310409P-6, Motor S/N 1MAF43189-G4-RQ

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

1 - PACIFIC PIPE CO. COOLING TOWER SULFURIC ACID FEED TANK, S/N 223670-M, 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

1 - NALCO 3D MODEL TRASAR 5500 WATER MONITORING SYSTEM, With Fiberglass Weather Resistant Enclosure

### **AUXILLIARY WATER COOLING SYSTEM**

2 - GOULDS MODEL 3996 AUXILLIARY COOLING WATER CIRCULATION PUMPS, 525 GPM, 92 Head Ft., Size 4x6-13, Impellor Diameter 9.62", GE Severe Duty AC Motor, 25-HP, 230/460 Volts, 1770 RPM, 284TC Frame; Pump # 1- Pump S/N 708D514.2, Motor S/N 4805790003; Pump # 2 - Pump S/N 708D514.1, Motor S/N 4821820034

1 - PACIFIC PIPE CO. AUXILLIARY COOLING WATER SURGE TANK, S/N 223670-D (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 AUXILLIARY COOLING WATER PLATE TYPE HEAT EXCHANGER, S/N 63075 (1989), MAWP 80 PSI @ 200°F, Surface Area 928.50 Sq.Ft., H2O Media

1 - MUELLER AUXILLIARY COOLING WATER DUPLEX STRAINER / FILTER

### **WATER DEMINERALIZATION SYSTEM**

1 - IONICS ULTRAPURE REVERSE OSMOSIS WATER PURIFICATION SYSTEM, With (1) Main Skid Including Control Panel, Instrument Panel With Thornton 200 Flow Control & Thornton 200CR Conductivity Control, 7-½-HP Pump System, (1) Marlo 2-Chamber Regeneration Skid, (1) 8-Canister Media Filter Bank With Thornton 200CR Controller

1 - EATON METAL PRODUCTS DEMINERALIZED WATER STORAGE TANK, 16,000-Gallons, Atmospheric Design Pressure, Design Temperature 140°F, 14'-0" Diameter x 16'-0" Height, Material A36 Carbon Steel

1 - SUNFLO SUNDYNE SERIES P1000 # 1 DEMINERALIZED WATER TRANSFER PUMP, Pump Model P1080, S/N 89435970, 3-HP, 230/460 Volt, 1735 RPM, 1825D Frame

1 - SUNFLO SUNDYNE SERIES P1500 # 2 DEMINERALIZED WATER TRANSFER PUMP, Pump Model P1080, S/N 89435971, 3-HP, 230/460 Volt, 1735 RPM, 182TD Frame

1 - GOULDS MODEL 3996 EMERGENCY DEMINERALIZED WATER TRANSFER PUMP, S/N 705D673.21, Size 1½ x 2-10, 8¾ Impellor Diameter, 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\*

### **EMERGENCY STANDBY DIESEL GENERATOR**

1 - CATERPILLAR MODEL SR-4 475 KW STANDBY AC POWER GENERATOR, S/N 6EA01365 (1989), Arrangement No. 5N8668, Generator Set: 594 KVA, 475 KW, 8 COS Ø, 60 Hz, Standby Rating; Generator Rating: 3 Phase, 10 Wire, WYE, Series Connection, Generator: 480 Volts, 714 Amps; Excitation: 43 Volts, 8.9 Amps, Caterpillar Model 3412 V-12 Diesel Engine, 723 HP / 539 KW, 1800 RPM, Metal Weather Resistant Enclosure With Fuel Oil Tank Skid Base  
DIESEL SUPPLY SYSTEM

1 - DIESEL FUEL SUPPLY SYSTEM With (1) 40000 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, 303 CFM, 132 PSIG, 3500 RPM, 400 Volt, Water Cooled, Elektronikon Microprocessor Control; Compressor # 1 S/N ARP888530 (1989); Compressor # 2 S/N ARP888533 (1989); Compressor # 3 S/N ARP888535 (1989)

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 941, 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 A0911X, Class OA/FA/FA, MVA 12/16/20 @ 55°C Temp. Rise, MVA 13.4/17.9/22.4 @ 65°C Temp. Rise, HV 12000 GRDY/69280, LV 13800, 3-Phase, 60 Hz

1 - ASEA MODEL HLT 145 TRANSGARD TRANSFORMER PROTECTOR, S/N A0910S (1989), 2000A Cont., Max Voltage 145KV, 31.5 KAIC SYM., Full Wave BIL 650KV, 60Hz Withstand 310KV, 125 VDC Close/Trip, 120 VAC Motor, With (3) Breaker Switches

1 - CURRENT TRANSFORMERS - POTENTIAL TRANSFORMERS, (CTPT'S), 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 896005996, 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 896005997, 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 E1137-489SCR, Voltage 4160 - 460Y/266, 3 Phase, 60 Hertz, CAT No. ARO500COS3HJ-I

### **MOTOR CONTROL ROOM**

1 - BAILEY MODEL NETWORK infi90 DISTRIBUTED CONTROL SYSTEM, With Main Digital Control Center, Remote Data Collection & Transmitter Stations, Remote # 1 Turbine Area, Remote # 2 Ash Area, Remote # 3 Boiler Area, Remote # 4 BOP 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. # 48-66609A1, Volts 15000, Freq. 60 Hz  
1 - SIEMENS 4-PANEL MEDIUM VOLTAGE MOTOR CONTROL CENTER, S/N 09-0430-48892-01, Part No. 25-319-031-501 & 502, 4160 Volts, 3 Phase, 60 Hertz, Horizontal Bus Continuous Rating 1200 Amps  
1 - SIEMENS MODEL MCC-A SITE III 14-PANEL MOTOR CONTROL CENTER, MCC Part No. 9-001-54416-04, S/N 01-1464-54416-04, Volts 460, Phase 3, Hertz 60, Horizontal & Vertical Short Circuit Current Rating 65 KA, Horizontal Bus Continuous Rating 1600 Amp  
1 - SIEMENS MODEL MCC-B SITE III 13-PANEL MOTOR CONTROL CENTER, MCC Part No. 9-001-54416-05, S/N 01-1464-54416-05, Volts 460, Phase 3, Hertz 60, Horizontal & Vertical Short Circuit Current Rating 65 KA, Horizontal Bus Continuous Rating 1600 Amp  
1 - SIEMENS MODEL MCC-E SITE III 6-PANEL MOTOR CONTROL CENTER, MCC Part No. 9-001-54416-06, S/N 01-1464-54416-06, Volts 460, Phase 3, Hertz 60, Horizontal & Vertical Short Circuit Current Rating 65 KA, Horizontal Bus Continuous Rating 800 Amps  
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 H250-250 Halogenated Agent Extinguishing System Units  
1 - LaMARCHE MODEL A12B-100-130V-C3 CONSTAVOLT FLOAT BATTERY CHARGING SYSTEM, S/N N-8875-3, 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 - SQUARE D DRY TYPE TRANSFORMER, CAT No. 30T3H, Style No.33349-17212-035, 30 KVA, 3 Phase, 60 Hz, H.V.- 480, H.V. Amps 36, L.V. - 208Y/120, L.V. Amps 83  
1 - SQUARE D DRY TYPE TRANSFORMER, CAT No. 45T3H, Style 33749-17212-030, 45 KVA, 3 Phase, 60 Hz, H.V. - 480, H.V. Amps 54, L.V. 208Y/120, L.V. Amps 125  
1 - MATRA ELECTRIC MODEL 6030411L DRY TYPE TRANSFORMER, 30 KVA, 3 Phase, 60 Hz, Volts 480-208Y/120  
1 - EATON MODEL 9355 UPS BATTERY BACK UP SYSTEM  
1 - SQUARE D MODEL I-LINE PANELBOARD BREAKER PANEL, CAT No. HON27742MN, Volts 250 VAC/DC, 600AC, With 100 Amp Main & (24) 20 Amp Breakers  
1 - SQUARE D BREAKER PANEL, CAT No. NQODQ2, 240V AC Max., 275A Max., With 150 Amp Main & (32) 20 & 30 Amp Breakers  
1 - WESTINGHOUSE MODEL POW-R-LINE BREAKER PANEL, Type PRL-3 / 24 CKT, 125 Volts DC, 150 Amp, 100 Amp Main & (10) 20-50 Amp Breakers  
1 - CGI SYSTEMS OPERATOR'S CONTROL CONSOLE  
1 - OPERATIONS CONTROL DESK, With Monitor Screens, PC's, Remote Camera System

**FORKLIFT**

1 - HYSTER MODEL H60XM 5600-LB. CAPACITY FORKLIFT, S/N H177B42415A, 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, #KB3A75

**MAINTENANCE SHOP**

1 - LINCOLN IDEALARC MODEL R3R-300 VARIABLE VOLTAGE DC WELDING POWER SUPPLY, S/N AC728908, Arc Welding Leads

1 - MAINTENANCE SHOP EQUIPMENT, Including Wilton Drill Press, Knaack Gang Boxes, Heavy Duty Steel Welding Table With Wilton Vise, Ridgid 535 Power Pipe Threader, DeWalt Cut-Off Saw, Dry Rod Electrode Oven, PowCon 300 6m Wire Welder, Shop Air Compressor, Hand Tools, Power Tools, Hardware, Repair & Service Parts & Hardware, Nuts, Bolts, Fittings, Cabinets, etc