

# Equipment Available - Ethanol Plant & CHP 4 MW

368 Items  
352 Records



Solutions 4 Manufacturing  
217 245-2919 sales@solutions4mfg.com

Internal Note: These are SELL & HOLD assets

NOTE: This listing may not be entirely accurate as equipment is sold. Check with us as to availability

Asset	Name	Manufacturer	Description	Location	Status	Qty
<b>Blower</b>			<b>11 Item(s)</b>			
BF-1302	Blower 5HP	MAC	Air Blower capacity ACFM Driven by 5HP motor, Material CS. Used as Dust Filter Reverse Air Blower under FA-1301. Part of Baghouse - priced with baghouse	13	Hold	1
BF-5431	Blower Fan 200HP	IAP	IAP Fan Model 23-84. Fan capacity 22,562 cfm at 33" sp, 2062 rpm. Fan is P Design 50 Arr 1Z. Driven by a v-belt 200 HP motor 1800 rpm. Electric actuated damper. Used as Fluid Bed Dust Collector Fan on Dryer system. Part of fluid bed cooler package - enter PK5430 for a list of all components.	8-54	Hold	1
BF-5101	Blower Fan 2HP	Northern Blower	Northern Blower capacity 1400 ACFM @ 3.5 "WC Driven by 2 HP motor 1800 rpm Material 304 SS Size 7, Model 22, 100% SISW, ARR 9, Rot CW, TAU With outlet damper. Used as Centrate Blower in decanting.	35-51	Hold	1
BF-9103	Blower Fan 30HP	New York Blower	New York Blower, size A13913-100. Wheel 2410 steel. 2,000 cfm at sp 50" wc. BHP 23.5, rpm q550, VCVW rotation. Driven by 30 HP motor. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	16-17	Hold	1
BF-3501	Blower Fan 7.5HP	Northern Blower	Northern Blower Process Vent Scrubber Fan capacity 1000 CFM @ 3.5 "WC HP 7.5 RPM 1800 Material 304 SS Size 7 Model 22 100% SISW ARR 9 Rot CW TH discharge with outlet damper. V-belt drive by 7.5 HP motor 1760 rpm. For more detailed data - see links. This unit is part of the scrubber Package. For a list of that package and all components, enter "PK3501" into the keyword search box.	2-35	Hold	1
BF-9130	Blower Package 60HP	Tuthill	Tuthill Ash Blower 60 HP blower. Model 4612-46L2. Complete skid Used to blow ash from baghouse hopper discharge - CoGen. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box.	18-6	Hold	1
BF-1301	Blower, Dust Filter 40HP	Twin Cities Fan Company	Blower for Dust, mfg by Twin Cities. Model RBA Arr 9A Class 22 Size 921 UBO. CCW motor rotation. Blower capacity designed for 11,000 cfm at 13" sp. Driven by 40 HP motor, v-belt drive. Material CS. See drawing link. Used on dust filter FA-1301. Part of Hammermill Milling System - see asset PK-1301. For a list of all components, enter PK1301 in search box.	5-13	Hold	1
BF-9141	FD Fan 1000 HP	Robinson	Robinson FD Fan; Type RB1216, size 65x11 1/2. Designed for 77,800 cfm at 50" sp. Direct Driven by 1000 HP motor, 1800 RPM 4160v, Used as FD fan at CoGen boiler. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box.	16-08	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
BF-5420	ID Fan 125HP	Northern Blower	ID Fan 23,657 cfm at 23 " sp. Mfg by Northern Blower Design 4370, Size 3650. Arrt 1S1, CCW rot. Fan material cs. Driven by Baldor 125 HP motor 460/3/60 , RPM 1800, TEFC. Belt driven. Physical size skid 93" x 94" x 85" tall. See link for drawings and data. Used as Dryer Stage 2 ID Fan. Part of Dryer #2 ancillary package - enter PK5420 for a list of all components.	8-54	Hold	1
BF-5410	ID Fan 150HP	Northern Blower	ID Fan 29,613 cfm at 23 " sp. Mfg by Northern Blower Design 4370, Size 4025-4425. Arrt 1S1, CCW rot. Fan material cs. Driven by Baldor 150 HP motor, RPM 1800, TEFC. Belt driven. Physical size skid 99" x 108" x 93" tall. See link for drawings and data. Used as Dryer No 1 ID Fan. Part of Dryer #1 ancillary package - enter PK5410 for a list of all components.	8-54	Hold	1
BF-9142	ID Fan 600HP	Robinson	Robinson ID Fan designed for 96,555 cfm at 19" sp. 600 HP Motor 1200 rpm 4160v. Used as ID Fan at ash baghouse & bin; CoGen. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box.	18-7	Hold	1

## Boiler

6 Item(s)

FH-9141	Coal Combustor	EPI (Outotec Energy)	EPI coal combustor - now Outotec Energy Products. Physical size approx 20 ft x 32 ft. x 84 ft tall Steel weight takeoff from drawing = 578,144 pounds. Designed to burn coal slurry (dried coal "powder" ) from coal wash pits. Rate of coal slurry 23,585 lb/hr. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	16-1	Hold	1
EC-9141	Economizer	Rentech	Economizer for Rentech Combustor boiler. Designed for 25.28 MMBTU. Weight takeoff 70,000 pounds. Sprayed on internal refractory. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	16-4	Hold	1
GT-9150	Flame Detection System, Boiler	Diamond Power	Flame detection system camera for boiler flame guard control. Detector on motorized extending arm. Diamond Power Scanner with auto retract. Fully supported by B&W, the original Diamond equipment manufacturer. Used as scanner on coal combustor	16-01	Hold	1
BO-9141	HRSG Boiler (from Combustor)	Rentech	Rentech boiler from combustor hot air. Boiler rated at 130,000 #/hr steam at 650 psig. Crossflow watertube boiler for incoming flue gas of 273,700 #.hr at 1700F. The system also has a 2-stage superheater and 2 evaporative sections - and a separate economizer (See asset EC-9141). Steam drum on top, dims 72" ID x 16 ft long, MAWP 800 psig at 525F. . Has refractory sprayed internally. Weight takeoff from prints: Boiler weight 50,964# , transitions & structure 177,462 pounds = 228,426 pounds. Used as HRSG - Heat Recovery Steam Generator at CoGen. Boiler dimensions approximately 39'-6" long (4 sections) x 10 ft wide x 40 ft tall on 28 ft legs (68-8 OAH). See LINKS for specifications and drawings. This price is for Rentech HRSG only as described above - The entire system is available as well for sale in pieces or a whole. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	16-2	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
CEM-9101	Stack Emissions Monitor CEMS	CEM	CEM's instrument stack monitor - EKTO Building. Model 8812SP, 768 cubic feet. Teledyne (CEMS) Unit used for stack gas emission analyzing and transmitting with (6) rack mounted units: Nox O2 SO2 CO CO2 Sensors and plus other rack mounted units in cabinet. Climate controlled building by EKTO, Model 866sp. 288 cu ft. Includes Allen Bradley plc and touch screen. Includes everything inside the building plus the building. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box.	18-13	Hold	1
ST-9101	Stack, Stainless Steel		Stack, Stainless steel approx 6 ft dia x 100 ft. Designed for 97,290 cfm. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box.	18-9	Hold	1

## Columns

4 Item(s)

TW-4101	Beer Distillation Column	Thermal Kinetics	Thermal Kinetics Beer Column - 25 trays. Capacity 46 MMBTUH size 8'-6" dia x 66' s/s x 77'-2" OAH (including the 8 ft skirt) Design: Mfg by Alps Welding ser num 2089, ASME NB# 474,MAWP FV/25psig at 250F. Stainless Material ss304L with cs skirt. See links for data and drawings.	33-41	Hold	1
TW-4301	Molecular Sieve Column 1	Alps Welding	Vertical Packed column size 8' dia x 36' s/s. Capacity about 13,500 gallons. With 8 ft cs skirt. Material carbon steel. Design: Mfg by Alps Welding ser num 2093, ASME NB# 469 MAWP FV/75psig at 450F. Molecular sieve still installed, packed with Grace 562Et 44#/ft3 and Norpro D-57 ceramic balls 86#/ft3. Two support rings for Johnson grid. See drawing in LINKS. Used as Thermal Kinetics Dehydration Column #1 capacity - Mole Sieve	33-43	Hold	1
TW-4302	Molecular Sieve Column 2	Alps Welding.	Vertical Packed column size 8' dia x 36' s/s x 47' OAH (includes 8 ft skirt) . Capacity about 13,500 gallons. With 8 ft cs skirt. Material carbon steel Mfg by Alps Welding ser num 2094, ASME Nat'l Bd# 468 MAWP 75 psi at 450F. Molecular sieve still installed, packed with Grace 562Et 44#/ft3 and Norpro D-57 ceramic balls 86#/ft3. Two support rings for Johnson grid. See drawing in LINKS. Used as Thermal Kinetics Dehydration Column #2 capacity - Mole Sieve	33-43	Hold	1
TW-4102	Rectifier Distillation Column	Thermal Kinetics	Thermal Kinetics Rectifier Column 32 trays. Capacity 75 MMBTUH size 6'-6"Dia x 80' -6" s/s x 95'-6" OAH (including the 12 ft skirt). Stainless Column is ss 304L, skirt is cs. Design: 75psig/FV at 400F	33-41	Hold	1

## Compressor

1 Item(s)

CO-9710	Air Compressor and Dryer 10HP	Speedaire	Air Compressor, 2-stage, self contained compressor and surge tank including refrigerated Dryer. 34 cfm, 120 gallon tank. Compressor driven by 10 HP motor 230-460v 3 phase. Speedaire refrigerated dryer model 5Z657. Dryer has 1/2 HP motor at 120v 1 phase	28-97	Hold	1
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## Conveyor

32 Item(s)

Asset	Name	Manufacturer	Description	Location	Status	Qty
CB-9101	Belt Conveyor Trough 450 ft	Martin	Trough belt conveying system and structure. Inclined trough belt conveyor mfg by Martin. Martin model S Class air supported belt. Size 24" wide x 450 ft long. Inclined conveyor has equivalent of 73 ft vertical lift - 150 fpm speed. Designed for 50 tons/hr of coal at 35 lb/cf and of lime at 87.5 lb/cf density. Has four blowers; each driven by 40 HP motor. Includes structural steel. Used to transport coal and line from hoop house to combustor. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	21-91	Hold	1
CD-1201	Drag Conveyor 22 ft	Essmueller	Drag conveyor Size 12" w x 10" tall x 21'-10"x 12 in wide. Essmueller flat bottom drag Model 1210FB81. Material cs. Designed for 3100 cfh ground corn at 45 PCF. Has 106 flights. Driven by 2 HP motor 58 rpm. Set at 9 degree incline. See links for drawing. Last used as feed to hammermill elevator leg inlet.	5-12	Hold	1
CD-5401	Drag Conveyor 24 ft	Essmueller	Essmueller Conveyor Model 1213FB88 horizontal flat bottom drag conveyor. Size 12" x 13" tall x 23'-8" long OAL 25'-10"). Designed for 1920 CFH of DDG at 45 #/cf running at a speed of 100 fpm. Has 58 flights and chain driven by a 2 HP motor. Material cs. See link for drawing. Used as conveyor from dryers to DDGS transfer conveyor.	8-54	Hold	1
CON-013	Drag Conveyor 75 ft DDGS Feed	Union Iron	Drag conveyor horizontal 75'-4" long x 29" wide, carbon steel. Rated for 240 tons/hr of DDGS at 35 #/cu ft. about 13,700 CFH). Has 112 flights, material UMW polyethylene, chain driven at 146 ft/min by 20 HP motor 460/3/60. See conveyor drawing in LINKS. Price does not include steel structure galvanized bridge & walkway but we can add for an extra. Used as feed conveyor for the DDGS for loadout to Dynatek/SLY system. Part of the DDGS load out system but will be sold separately. For a list of all components of the DDGS load out system, enter PK8420 in the search box	24-84	Hold	1
CD-5101	Drag Conveyor 80 ft 90 degree	Essmueller	Drag Conveyor, stainless steel - transition from horizontal to vertical. Horizontal length approx 44 ft x vertical lift approx 38 ft (OAH 40 ft & OAL 80'-7"). Width approx 10". Poly drag flights. Designed for 2,000 CFH of Wet DDGs (WDG) at 55 PCF. Speed is 67 ft.min. Material ss304 stainless. Capacity 110,000 PPH. Driven by 15 HP motor 1800 rpm. See conveyor drawing in links. Used as drag under all 3 centrifuges to Dryer area.	51	Hold	1
CD-8410	Drag Conveyor DDGS 50 ft	Essmueller	Essmueller drag conveyor Model 3024FB132. Size 30" wide x 24" tall x 49'-10" long (OAL 53') designed for 15,000 CFH DDGS at 32 PCF. Horizontal drag running at 73 fpm. Has 105 flights chain driven. Material cs. Driven by 15 HP motor 460/3/560. This conveyor is in DDGS storage pit - no photos available - feeds elevator CE-8411. See link for drawing. Last used for DDGS Reclaim Drag Conveyor	23-84	Hold	1
CD-8406	Drag Conveyor DDGS 64 ft	Essmueller	Drag conveyor by Essmueller, Model 1213FB81. Flat bottom En-Masse drag - size 12" w x 13" tall x Length 64'-11" horizontal. Designed for DDGS at 35 PCF, capacity 2100 CFH 50 fpm. Driven by 3 HP motor 1750 rpm 460/3/60. Material CS, See link for drawing. Used as DDGS Distribution Drag Conveyor No. 1	22-84	Hold	1
CD-5416	Drag Conveyor ss	Essmueller	Drag conveyor ss 304L. capacity 28,397 PPH HP 10 Material 304L. Horiz to 45 degree incline to horiz drag. Used as 2nd Stage Product Transfer Drag Conveyor - Dryer No. 1. Part of Dryer #1 ancillary package - enter PK5410 for a list of all components.	8-54	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
CD-5426	Drag Conveyor ss	Essmueller	Drag conveyor ss304L, capacity 22,271 PPH. Driven by 10 HP motor. 45 degree incline drag. Used as Elevating Recycle Drag Conveyor - Dryer No. 2. Part of Dryer #2 ancillary package - enter PK5420 for a list of all components.	8-54	Hold	1
CD-5428	Drag Conveyor ss	Essmueller	Drag conveyor ss304L, capacity 31,801 PPH HP 10 Material CS/304L. Horiz to 45 degree incline to horiz drag. Used as Product Transfer Drag Conveyor - Dryer No. 2. Part of Dryer #2 ancillary package - enter PK5420 for a list of all components.	8-54	Hold	1
CD-5415	Drag Conveyor ss 124 ft	Essmueller	Essmueller Drag conveyor model 1818HF124, ss 304L. Hi Flite drag incline/horiz. Size is 18"x 18" x 124 ft long. Capacity 49,149 PPH. Driven by 15 HP motor. Design rate is 4600 to 7600 cu ft/h (6100 bu.hr) depending on speed (fpm). Used as Elevating Transfer Drag Conveyor - Dryer No. 1. Part of Dryer #1 ancillary package - enter PK5410 for a list of all components.	8-54	Hold	1
CD-5102	Drag Conveyor ss 54 ft	Essmueller	Drag conveyor stainless steel mfg by Essmueller. Model RB16" x 54 ft long. (OAL 56'-5"). Designed for capacity 55,178 PPH, 2000 cfm of wet DDG at 55 PCF, 100 fpm. Material 304 SS. Has 129 UHMW flights, ss chain. Driven by 5 HP motor. Used as Wet Cake Transfer Conveyor No. 1 at dryer system. See drawing in Links.	51 dryer area	Hold	1
CS-1201A	Screw Conveyor		Screw conveyor capacity 2132 CFH HP 5. Last used as Corn Transfer Conveyor No. 1 from under grain bin (scalper feeds it)	5-12	Hold	1
CS-5431	Screw Conveyor	Barr-Rosin	Screw conveyor carbon steel. Material CS. Driven by 25 HP motor. Used as GEA Barr-Rosin Dust Collector Screw Conveyor (under FA-5431). Part of fluid bed cooler package - enter PK5430 for a list of all components.	8-54	Hold	1
CS-1306	Screw Conveyor 15 ft	Thomas Conveyor	Screw conveyor- Mfg Thomas Conveyor size 16" screw x 15'-1" long. Designed for capacity 3400 cfm of ground corn with 45 pcf. Variable pitch screw. See drawing in link. Both screw and housing are carbon steel. Driven by 7.5 HP motor at 1750 rpm geared down to 65 rpm. See drawing in links. Last used as Slurry Blender Feed from hammermill to BP-2101	13	Hold	1
CS-9131	Screw Conveyor 14 ft		Screw Conveyor 12 inch diameter x 14 ft. Driven by 5HP Motor. Used as ash drop out conveyor on ash baghouse CoGen. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	18-6 NE	Hold	1
CS-9133	Screw Conveyor 14 ft		Screw Conveyor 12 inch diameter x 14 ft. Driven by 5 HP Motor. Conveyor under ash baghouse at CoGen. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	18-6 SE	Hold	1
CS-9130	Screw Conveyor 16 ft		Screw Conveyor 9" x 16 ft long. Driven by 5HP motor. Used as ash dropout conveyor at ash baghouse CoGen. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	18-6 NW	Hold	1
CS-9132	Screw Conveyor 16 ft		Conveyor 9 inch diameter x 16 feet. Driven by 5 HP motor. Under ash baghouse CoGen. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	18-6 SW	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
CS-1303	Screw Conveyor 31 ft	Thomas Conveyor	Screw conveyor, Mfg Thomas Conveyor. Size 16" dia x 31'-6" long. Designed for capacity 2132 CFH Material carbon steel, Driven by 10 HP motor 1800 rpm geared down to 65 rpm.. See link for drawing. Last used as Ground Corn Milling Transfer Conveyor. Part of Hammermill Milling Package - see asset PK-1301. For a list of all components, enter PK1301 in search box	5-13	Hold	1
CS-8411	Screw Conveyor 8 ft	WW Constructors	Screw conveyor - 12" dia screw x 8 ft (center of inlet to outlet), right hand, overall length 10 ft. Designed for 1000 cu ft/hr DDGS at 32 PCF driven by 1 HP motor 460/3/60 1800 rpm with Dodge reducer at 25:1 so final screw rpm = 72 rpm. Material cs. Has 12" x 12" inlet opening and 12" x 12" outlet. See link for drawing. Last use for DDGS Loadout Dust Filter Discharge Conveyor from FA-8411	31-84	Hold	1
CS-5421	Screw Conveyor ss	Davenport	Screw conveyor ss304L. Capacity 74,906 PPH HP 10 Material 304L, Used as Davenport Drum Feed Conveyor - Dryer No. 2. Part of Dryer #2 ancillary package - enter PK5420 for a list of all components.	8-54	Hold	1
CS-5411	Screw Conveyor ss 8.5 ft	Conveyor Engineering	Screw conveyor 16" dia x 8'-6" long. Material ss304 housing and screw. Has hopper inlet. Designed for capacity 77,546 PPH . HP 10 Material 304L. See link for drawing. Used as Drum Feed Conveyor from mixer - Dryer No. 1. Part of Dryer #1 ancillary package - enter PK5410 for a list of all components.	8-54	Hold	1
CS-5417	Screw Conveyor ss 12 ft	Conveyor Engineering	Screw conveyor 14" dia x 12 ft long. Mfg by Conveyor Engineering designed for capacity 28,397 PPH Material ss304 screw and housing. V-belt drive by 10 HP. See link for drawing. Used as Transfer Screw Conveyor to 2nd stage paddle mixer - Dryer system. Part of Dryer #2 ancillary package - enter PK5420 for a list of all components.	8-54	Hold	1
CS-5420	Screw Conveyor ss 14 ft	Conveyor Engineering	Screw conveyor ss304 housing and screw. Size 16" dia x13'-8" long. Designed for capacity 74.906 PPH. Driven by 15 HP v-belt drive.. Has 16" round discharge, and drop ass'y 36". See link for drawing. Used as Mixer Feed Screw Conveyor - Dryer No. 2 from paddle mixer to drum feed conveyor. Part of Dryer #2 ancillary package - enter PK5420 for a list of all components.	8-54	Hold	1
CS-5412	Screw Conveyor ss 17 ft	Conveyor Engineering	Screw Conveyor 16" dia x 17 ft long. Material all ss304. Designed for capacity 49,149 PPH. Has hopper inlet 19"x95" . Driven by 10HP motor. Conveyor Engineering Model 098-1390-S-R. See link for drawing. Used as Dryer Hopper Discharge Screw Conveyor from Dryer #1	54	Hold	1
CS-5422	Screw Conveyor ss 18 ft	Conveyor Engineering	Screw conveyor with 22 paddles. Size 16" dia x 17'=10" long. Material ss304. Designed for capacity 54,099 PPH. Driven by 10 HP motor. See link for drawing. Used as Dryer No. 2 Hopper Discharge Screw. Part of Dryer #2 ancillary package - enter PK5420 for a list of all components.	8-54	Hold	1
CS-5429	Screw Conveyor ss 21 ft	Conveyor Engineering	Screw conveyor with opposing screws. Has 18 x18" hopper inlet each end x 16" x 16" outlet in middle. Size 14" dia screw x 20'-4" long. Material ss304 housing and screw. Designed for capacity 60,000 #/hr, driven by 5 HP motor. See link for drawing. Used as fluid bed Cooler Feed Screw. Part of Fluid Bed Cooler package - enter PK5430 for a list of all components.	8-54	Hold	1
CS-5103	Screw Conveyor ss 24 ft	Conveyor Engineering	Screw conveyor 16" dia x 24 ft long x 26'-4" OAL. Has 2 in-line screws. One 8'-3" long and one 17'-5" long. Mfg by Conveyor Engineering Conveyor, screw and conveyor are stainless steel ss304. Used as WDG conveyor to pad at dryer system	8-51	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
CS-5104	Screw Conveyor ss 26 ft	Conveyor Engineering	Screw conveyor by Conveyor Engineering. Size 14" dia screw x 26'-4" long. Material ss304 housing and screw. Has 2 discharges at end, one 15"x18" and one 15" x 28". Driven by 10 HP motor. See link for drawing. Used as WDG Transfer Conveyor No. 3 to Dryer 1 mixer. Part of Dryer #1 package - for a list of all components enter PK5410 in search box	51	Hold	1
CS-5424	Screw Conveyor ss 6 ft	Conveyor Engineering	Screw conveyor by Conveyor Engineering. Size 14" screw x 6 ft long. Material ss304 housing and screw. Designed for capacity 22,271 PPH. Driven by 10 HP motor. See link for drawing. Used Recycle Metering Screw - Dryer No. 2. Part of Dryer #2 ancillary package - enter PK5420 for a list of all components.	8-54	Hold	1
CS-5414	Screw Conveyor ss 8 ft	Conveyor Engineering	Screw Conveyor ss304 - 14" dia x 10' long. Dimension from center inlet to center outlet is 8 ft - overall length of conveyor is 13.3 ft. Designed for capacity 40,000 lb/hr at 45 PCF or 888 cu ft/hr. . Model 098-1391-S-R, ser num W50435. Has 10" round inlet and 14" round outlet with a 36" drop bottom ass'y in middle. Driven by 3 HP motor inverter duty with gear reducer for final rotation of 35 rpm. See link for drawing. Used as Recycle Metering Screw - Dryer No. 1 feed back to paddle mixer. Part of Dryer #1 ancillary package - enter PK5410 for a list of all components.	8-54	Hold	1

## Electrical

62 Item(s)

PG-9109	Generator 5000 KVA	Ideal	Ideal Generator. Horizontal Synchronous, Brushless. 12.47 KV 60 Hz 1800 RPM, 3 Phase, 5000 KVA. Part of GenSet package. For a list of all components, enter "PK9109" in the keyword search terms box. Used as C0Gen generator	17-18	Hold	1
PR-9109	GenSet Gear Reducer	Lufkin	Lufkin Gear Reducer Model N1602C. Single reduction, double helical. Input shaft speed: 7500 rpm, output shaft speed: 1800 rpm. Part of the steam turbine generator system PK-7109 For a list of all components enter PK9109 in the keyword search box	17-18	Hold	1
PL-9109	GenSet Lube Oil System	Lube Power Inc	Lube Oil pump and system for turbine. Lube power Inc S/N LP-1757 Rated 70gpm @ 3550 @ 120psid, 12.5 BHP@195psid@325SSU Rotation CW Shaft 1.25 in with .25 SQ Key. Part of GenSet package. For a list of all components, enter "PK9109" in the keyword search terms box. Used as C0Gen generator	17-18	Hold	1
LP-2003-2	Lighting Panel	GE	Lighting panel 208/120v, 3 phase. Catalog AQU3302RCX	7-98	Hold	1
LP-2002-2	Lighting Panel	GE	Lighting Panel 480Y/277v 3 phase. Catalog AEF3121LT	7-98	Hold	1
LP-2002-1	Lighting Panel	GE	Lighting panel GE Cat AEF3421BBX 480Y/277 v 3 phase	7-98	Hold	1
LP-2001-1	Lighting Panel	GE	Lighting panel, GE Cat AEF3421KBX 480Y/277 v 3 phase	7-98	Hold	1
LP-2001-2	Lighting Panel	GE	Lighting panel GE Cat AEF3122LT 225 amps, 480Y/277v	7-98	Hold	1
LP-9401-1	Lighting Panel		Lighting circuit panel 480Y/277v 3 phase	15-94	Hold	1
LP-9401-2	Lighting Panel	GE	Lighting panel GE Cat# AEF3121LT. 125 amps 480Y/277v 3 phase	15-94	Hold	1
LP-9402	Lighting Panel	GE	Lighting circuit panel GE Cat AQF3422AB 225 amps, 208Y/120v 3 phase	15-94	Hold	1
LP-5001-1	Lighting Panel	GE	Lighting Circuit Panel	35-51	Hold	1
LP-5001-2	Lighting Panel	GE	Lighting circuit panel=board, A Series II by GE. 3 phase 225 amps	35-51	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
LP-9105	Lighting Panel		Lighting panel 120v	16-14	Hold	1
LP-9106	Lighting Panel		Lighting panel 120v	16-14	Hold	1
LD-9102	MCC 1200A	Cutler Hammer	Cutler Hammer motor control center (MCC). 7 sections 1200A horizontal bus, 20 starters, 4 breakers, and a 300HP soft start - all 480v. See one line drawing (in Links) for numbers and sizes of starters. Note that LD-9102 is shown as MCC-2 on that schedule.	16-98	Hold	1
LD-9103	MCC 1200A	Cutler Hammer	Cutler Hammer MCC 1200A horizontal bus. MCC-EMI. 7 sections, 8 starters, (2) 300HP soft starts, 480v. See one line drawing (in Link) for numbers and sizes of starters. Note that LD-9103 is shown as MCC-EM1 on that schedule.	16-98	Hold	1
LD-8601	MCC 400A at hoop house	Cutler Hammer	MCC in bldg behind hoop house. Cutler Hammer. 2 sections with 400A disconnect. Starters for 2-10HP feed conveyors, 4-15HP motors for the 4 blowers, 5HP for air compressor, 20HP for baghouse + 2 spares. Breakers for 2 panels (LG-8601 & 8602) & 45 KVA transformer (LA-8601). Used as MCC at hoop house in shed in back. See one line drawing (in Link) for numbers and sizes of starters. Note that LD-8601 is shown as MCC-3 on that schedule.	21-21	Hold	1
LD-9101	MCC 600A	Cutler Hammer	Cutler Hammer MCC 600A horizontal bus. Has 6 sections, 12 starters and 4 VFD's, 480v. See one line drawing (in Link) for numbers and sizes of starters. Note that LD-9101 is shown as MCC-1 on that schedule.	16-98	Hold	1
MCC-LD-1301	MCC Panel 1 (1200A)	GE	MCC Panel 1 GE Evolution Series E9000 1200A supply, horizontal x 300A vertical bus 480v 3 phase. Cat 0C64X0099L01. A-I (9 sections). We have photos of each bucket in this MCC. Has (3) fractional HP with VFD starters, (5) size 1 starters, (7) size 2 starters, (1) size 3 starter, (3) size 5 starters. Includes a GE PQM II power quality meter, Back-to-Back panel with Panel 2 MCC-LD-2001.	7-98	Hold	1
MCC-LD-5001	MCC Panel 1 (1200A)	GE	MCC Panel 1 GE Evolution Series E9000 1200 A horizontal bus, 300A vertical bus 480v 3 phase. 11 sections (A-K). Has (2) small HP VFD starters, (1) 100HP VFD starter, (1) 150HP VFD starter, (14) size 1 starters, (4) size 2 starters, (2) size 3 starters. We have photos of each bucket. Fed from switchgear LC-5001 breaker. See the single line diagram attached as link - feeds Dryer #1 and systems.	35-98	Hold	1
MCC-LD-2001	MCC Panel 2 (1200A)	GE	MCC Panel 2 GE Evolution Series E9000, Cat 0C64X0099L02. 1200 A horizontal bus, 300A vertical bus 480v 3 phase, A-G (7 sections). Has (1) 25HP VFD starter, (11) size 1 starters, (3) size 2 starters, (3) size 3 starters, (1) size 4 starter, and (1) size 5 starter. Includes a GE PQM II power quality meter. This is a back-to-back MCC with Panel 1 MCC-LD-1301. We have photos of each section & starter.	7-98	Hold	1
MCC-LD-5002	MCC Panel 2 (1200A)	GE	MCC Panel 2. GE Evolution Series E9000 1200A horizontal bus, 300A vertical bus 480v 3 phase. Catalog 0C640099L07. 11 sections (A-K). Has (5) small VFD (1-10 HP) starters, (1) 150HP VFD starter, (1) 100HP VFD starter, (16) size 1 starters, (1) size 2 starter, (1) size 3 starter, (2) size 4 starters. Fed from Switchgear LC-5001 breaker. See the single line diagram attached as link feeds #2 Dryer & systems.	35-98	Hold	1
MCC-LD-2002	MCC Panel 3 (1200A)	GE	MCC Electrical Panel 3 GE Evolution Series E9000 1200 A. horizontal, 300A vertical bus, 480v 3 phase. Catalog 0C64X0099L04 A-E (5 sections). Has (2) 125HP starters with VFD, (1) size 5 starter, (1) size 1, (1) size 2, and (1) size 3 starter. Includes GE PQM II power quality meter. This is a back-to-back MCC with Panel 5 MCC-LD-4001.	7-98	Hold	1



Asset	Name	Manufacturer	Description	Location	Status	Qty
MCC-LD-5003	MCC Panel 3 (1200A)	GE	MCC Panel 3 GE Evolution Series E9000 1200 A. horizontal bus, 300A vertical bus 480v 3 phase. Has (17) size 1 starters, (5) size 2 starters. 6 sections (A-F). We have photos of each bucket. See the single line diagram attached as link.	35-98	Hold	1
MCC-LD-2003	MCC Panel 4 (1200A)	GE	MCC panel 4 GE Evolution Series E9000 1200 A horizontal bus and 300A vertical bus, 480v 3 phase. A-F (6 sections). Has 2 starters with VFD, (9) size 1 starters, (1) size 2 starter, (1) size 3 starter, and (1) size 5 starter. Includes GE PQM II power quality meter. We have photos of each of the starters and buckets.	7-98	Hold	1
PV-4205	Motor 10HP	Premium Efficiency	Explosion proof motor - 10HP 3 phase induction motor. Frame 215T. 460v/3/60. [Was last used on TKS First Effect Vent Condenser Vacuum Pump capacity 250 lb/hr @ 10.16 psia HP 10 RPM 1800. Pictures show motor only - originally PV-4205 vacuum pump]	33-42	Hold	1
M-4112	Motor 15HP		Motor ONLY - 15HP, 1150 rpm. 460v 3/60 TEFC cont duty	33-41	Hold	1
PC-5101	Motor 25HP	Toshiba	Toshiba motor 25 HP 1800 rpm. TEFC, frame 284T. 460/3/60. Motor only - pump has been scavenged [Pump was Goulds Pump Capacity 450 gpm @ 108 TDH size 3196 - 3x4-13. Material 316 SS or Duplex SS. Driven by motor HP 25 RPM 1800. ] Pump gone, motor only. Last used as Whole Stillage Pump.	35-51	Hold	1
M-2301	Motor 25HP	Reliance	Electric Motor - Reliance 25HP 1180 rpm. 460v 3/60 TEFC. (This is motor only - pump gone)	6-23	Hold	1
PC-4113	Motor 40HP	Reliance	Motor ONLY - Pump gone. Motor is 40HP 1190 rpm 460/3/60. (Pump was Goulds capacity 570 gpm @ 100 TDH size 3196 - 4x6-17 HP 40 RPM 1180 Material 304 SS. )	33-41	Hold	1
PE003	Panel 800 amp	Square D	Square D 800 amp PDP in RO building	RO building	Hold	1
CPP-2004-2	Panelboard	GE	Lighting and circuit panelboard, GE Cat AQF3301MB. 125 amps 208Y/120v 3 phase	7-98	Hold	1
CPP-2004-1	Panelboard	GE	Lighting and circuit panelboard, GE Cat AQF3421AB. 125 amps 208Y/120v 3 phase	7-98	Hold	1
CPP-5004	Panelboard	GE	Panelboard GE Cat# AF37S	35-51	Hold	1
LP-9103	Panelboard Breakers 480v	Cutler Hammer	Eaton Cutler Hammer breaker panelboard type PRL-3A. 480v/277Y. 3 phase, 250 amp. Has main breaker with 14 breakers 3-pole 600 VAC. Eight 15A breakers, four 20 amp breakers, one 30 amp breaker, one 80 amp breaker	16-14	Hold	1
LP-9104	Panelboard Breakers 480v	Cutler Hammer	Eaton Cutler Hammer Panelboard, type PRL-3A. 480v/277Y 3 phase 250A panel. Has 25 breakers plus main. One 15 amp breaker, twenty-two 20 amp breakers, and two 80 amp breakers.	16-14	Hold	1
PT-9109	Steam Turbine for GenSet	Tuthill	Back pressure Steam Turbine - by Tuthill - Murray Turbine driving electrical generator. Inlet steam pressure 650 psig, inlet temp 750F, Exhaust pressure 150 psig. Inlet flow: 130,000 lb/hr max, Turbine Speed 7500 rpm max, Generator speed 1800 rpm max, 3 stage. Includes (2) Radiators. Turbine: 3 stages, single inlet valve, 8" inlet and 12" exhaust. Part of the steam turbine generator system PK-9109 For a list of all components enter PK9109 in the keyword search box	17-18	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
LH-0401	Substation 12.47KV	Square D	Substation electrical infeed to plant manufactured by Square D. 12.47 KV 4000A. Incoming feed 3 sets of (3) 1/C 15kv 500 MCM cables + (1) 500 MCM 600v ground. Outgoing breaker switches in metal enclosure: Left most box is metering section, next large box is the main, then (7) 600A fused feeders 12.4 KV to the transformers in plant. See linked drawing for one-line.	29-98	Hold	1
LE-9101	Switchboard 1000A HV	Eaton Cutler Hammer	High voltage Switchboard 4160V Primary with disconnect. Cutler Hammer - 5 sections. Two soft starters - one for 1000HP FD fan and one for 600HP ID fan.	16-98	Hold	1
LC-2002	Switchboard 3000A	GE	Switchboard, 3000 amp GE Spectra Series 480V 3 phase - built March 2006, run 2 months in 2009 then idled. 3 sections with 2-1200A breakers, 1-500A breaker, 1-100A breaker. Still installed in protected MCC room. Last tested / serviced Midwest Engineering Consultants, Moline, IL 309-764-1561 9/8/11	7-98	Hold	1
LC-2001	Switchboard 3000A	GE	Switchboard, 3000 amp GE Spectra Series 480V 3 phase - built March 2006, run 2 months in 2009 then idled. 3 sections with 1-1200A breaker, 2-800A breaker,s 1-500A breaker, 2-400A breakers and 6 smaller breakers. Still installed in protected MCC room. Last tested / serviced Midwest Engineering Consultants, Moline, IL 309-764-1561 9/8/11.	7-98	Hold	1
LC-5001	Switchboard 4000A	GE	Switchboard, 4000 amp GE Spectra Series 480V 3 phase - built March 2006, ran 2 months in 2009 then idled. 4 sections with 2-1200A breakers, 1-800A breaker, 3-300A breakers, 2-200A breakers, and 6 other smaller breakers, Feeds MCC LD-5001 and LD-5002. Still installed in protected MCC room. Last tested / serviced Midwest Engineering Consultants, Moline, IL 309-764-1561 9/8/11.	35-98	Hold	1
LC-2003	Switchboard 600A	GE	Switchboard, 600 amp GE Spectra Series 480V 3 phase - built March 2006, run 2 months in 2009 then idled. 3 sections with 16 breakers, Still installed in protected MCC room. Last tested / serviced Midwest Engineering Consultants, Moline, IL 309-764-1561 9/8/11	7-98	Hold	1
LC-5003	Switchboard 800A	GE	Switchboard, 800 amp GE Spectra Series 480V 3 phase - built March 2006, run 2 months in 2009 then idled. 2 sections with 14 breakers, Still installed in protected MCC room. Last tested / serviced Midwest Engineering Consultants, Moline, IL 309-764-1561 9/8/11.	35-98	Hold	1
TF-9801	Transformer 10 KVA	Cutler Hammer	Transformer 10 KVA Eaton Cutler Hammer T20P11S10. Single phase transformer 240/480v to 120v. Type DS-3	37-98	Hold	1
HTCP-1TR	Transformer 112.5 KVA	Square D	Square D Transformer. EE112T1814H. 112.5 KVA. 480v to 480Y/277 60 Hz, 3 phase.	7-98	Hold	1
LA-5004	Transformer 15 KVA	GE	GE Transformer K Factor 9T83B3461G03. 480to 200/120v. 15 KVA. 60 hz, 3 phase. Type QL	35-51	Hold	1
LA-2004	Transformer 15KVA	GE	GE K Factor Transformer 15 KVA 9T83B3461G03. 480v to 200/120v, 60 Hz, 3 phase Type QL	7-98	Hold	1
LB-2001	Transformer 2000 KVA	GE	Pad mounted transformer by GE model Prolec. 2000 KVA high side 12470 v, low side 480Y/277 3 phase. Serial M07C21624. Built 2007, Ran 2 months - idled in 2009. Weight approx 12,000 pounds - see data sheet.	7-98	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
LB-2002	Transformer 2000 KVA	GE	Pad mounted transformer by GE model Prolec. 2000 KVA high side 12470 v, low side 480Y/277 3 phase. Ser# M07C21625. Built 2007, Weight approx 12,000 pounds - see data sheet.	7-98	Hold	1
LB-9401	Transformer 2000 KVA	GE	Pad mounted transformer by GE model Prolec. 2000 KVA high side 12470 v, low side 480Y/277 3 phase. RBT458-01-001 serial # GPM07C17812. Built 2007 - idled 2009, Weight approx 12,000 pounds - see data sheet.	14-94	Hold	1
LB-5001	Transformer 2500 KVA	GE	Transformer Pad mounted transformer by GE model Prolec. 2500 KVA high side 12470 v, low side 480Y/277 3 phase. Serial # M07C17811. Built 2007 - idled 2009. Weight approx 14,500 pounds - see data sheet. Available now - de-terminated and ready to load	35-98	Hold	1
LB-9102	Transformer 2500 KVA	Eaton Cutler Hammer	Pad mounted transformer by Cutler Hammer 2500 KVA - high side 12,470 v, low side 480/277 v 3 phase. Serial # 0759000129. Built 2007 - idled in 2009. Weight approx 14,500 pounds - see data sheet.	16-98	Hold	1
LA-9401	Transformer 30 KVA	GE	GE Transformer Cat# 9T83B3852 30 KVA 480/277v 3/60. Type QL. Built 2007, idle since 2009	15-94	Hold	1
LA-9402	Transformer 30 KVA	GE	GE Transformer 30KVA 9T83B3872. 60 Hz, 3 phase. Type QL 480v to 120v	15-94	Hold	1
LA-2002	Transformer 45 KVA	GE	GE Transformer 45 KVA Cat. No. 9T83B3853. 480v to 277v, 60 Hz, 3 phase. Type QL	7-98	Hold	1
TR-9103	Transformer 45 KVA	Square D	Square D Transformer 45 KVA. 480v to 120v Used as transformer for CEM building.	18-13	Hold	1
TR-9101	Transformer 45 KVA	Eaton	Transformer 45KVA Cutler Hammer V48M28T45CUEE. 480v to 120v	16-15	Hold	1
TR-9102	Transformer 45 KVA	Eaton	Transformer 45KVA. Cutler Hammer V48M28T45CUEE. 480v to 120v	16-15	Hold	1
HTCP-2TR	Transformer 75 KVA	Square D	Square D Transformer 75 kva. 480 to 480Y/277, 60 hz, 3 phase. EE75T1814H	35-98	Hold	1
HTCP-3TR	Transformer 75 KVA	Square D	Square D Transformer EE75T1814H. 75 KVA. 480 to 480Y/277 60 Hz, 3 phase	7-98	Hold	1
<b>Elevator Leg</b>		<b>6 Item(s)</b>				
DV-9141	Diverter Valve 18"	DCL	Diverter valve - 2-way. Mfg by Dust Control and Loading Systems (DCL) Model CBSDV30-18 (Curved blade symmetric diverter valve). Inlet 18" square, height 34", discharge flanges (2) 18" square each at 30 degrees off vertical. Material carbon steel. Last used as coal feed diverter to feed metering bins.	16-17	Hold	1
CE-8402	Elevator Leg 40.5 ft	Essmueller	Essmueller Bucket Elevator Model F12524 with a 40'-6" discharge height. Designed for 2100 cfh DDGS at 32 PCF at a belt speed of 279 fpm. Belt width 13 inches, 134 buckets - 1 row of 12" x 5" Maxi-Lift polyethylene buckets. Leg material cs. Driven by 3 HP motor 1800 geared down to 42 rpm. Includes platform and vertical ladder if wanted. See link for drawing. Used as DDGS elevator from dryer to storage	31-84	Hold	1
CE-9141	Elevator Leg 48 ft	Quail Ridge	Elevator leg 48 ft discharge, 50' OAH. Width 3'-10" Mfg by Quail Ridge. Has 80 single buckets 8"x5" style AA. Designed for approx 260 fpm, 534 cfh refractory sand at 90 pcf. Driven by 5HP motor 460/3/60. Built 2005. Used as sand and lime elevator to CoGen combustor. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	16-17	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
CE-8411	Elevator Leg 96.5 ft DDGS load	Essmueller	Essmueller bucket elevator 96'-6" discharge height. Designed for 15,000 CFH of DDGS at 32 PCF. Has 2 rows of polyethylene buckets - traveling at 472 fpm. Has 454 buckets - Buckets are 14" x 8" Maxi-Lift HD Max. Driven by 40 HP motor 1800 rpm geared down to 42 rpm. Material CS. Price is for elevator leg ONLY. We can also quote you for the tower & structure. See link for drawing. Used as DDGS Reclaim Bucket Elevator.	31-84	Hold	1
CE-1313	Elevator Leg 39.5 ft	Essmueller	Elevator leg, mfg by Essmueller Model G11524. Single bucket with a 39'-6" discharge. OAH approx 45'-4". Designed for 3400 cfh of ground corn at 45 pcf. Belt speed 379 fpm. 150 Buckets are 11" x 5" polyethylene. Driven by 7.5 HP motor 1800 rpm geared down to 58 rpm. Motor is 7.5 HP 230/460v 3/60. Material CS. See link for drawing. Includes vertical ladder and platform if wanted. Weight of elevator leg + platform/ladder = approx 9,000 pounds. Used as Ground Corn Transfer Elevator	5-13	Hold	1
CE-1201	Elevator Leg 69 ft	Essmueller	Elevator leg mfg by Essmueller, Model G10524. Discharge height 69 ft. Designed for 3100 cfh of whole corn at 48 pcf. Has one row of (252) 10" x 5: polyethylene buckets. Driven by 10 HP motor 1800 geared down to 61 rpm. See link for drawing. Used as Corn Transfer Elevator - Hammer milling. Part of Hammermill Milling System - see PK-1301. For a list of all components - enter PK1301 in search box	5-12	Hold	1

## Filters

18 Item(s)

FA-3101	Air Filter	Parker	Parker air filters, capacity 84 SCFM @ 100 psig size Inline 1.5" NPT Material 304L HEPA Filter - 0.5 Micron Model HN6S8DSJ. There are 2 of these - A & B. Last used for Yeast Tank Air Filter	6-31	Hold	2
BF-9147	Baghouse Dust Filter	IAC	Dust filter baghouse, mfg by IAC Model 120TB-BVI-81:S6. Has 81 filter bags bottom load type 6" x 123" OAL for approx filter area of 1300 sf. Bag house with 20 HP motor. Baghouse sits on top of Ash Bin TS-9143, Fan is Cincinnati fan RBE-15 designed for 5100 cfm at 5" sp. - driven by 20 HP motor. Baghouse size approx 7'-2" x 7'-2" x 10 to 12' tall. See links for drawings & data. Last used as dust filter on top of Ash storage silo.	18-20	Hold	1
FC-8209	Cartridge Filter	Parker	Parker cartridge filter. Size 18" OD x 42" s/s. Designed for capacity 600 gpm @ 150F. Has 25 cartridges. Material carbon steel SA 516. MAWP 150 psi at 500F. See link for drawing. Used as Ethanol Truck Loadout Filter	10-82	Hold	1
DC-012	Dust Collector Baghouse DDGS	SLY	Dust collector baghouse filter. SLY pulse TubeJet dust collector. Designed for 1000 cfm - keeps rail loadout dust free. Bag filter area 216 sf. Has 18 socks size 4-1/2" x 120" long. Approx size 5' x 9' x 24' OAH. On structure & legs - includes vertical access ladders and platforms. Rectangular top removal "tool-less" bags. Includes rotary airlock. Fan is Cincinnati fan Model 14A to handle 1000 cfm at 12" wc sp. Driven by a 5 HP motor 3500 rpm. Used on DDGS loadout system to loadout arm	24-84	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
FA-1301	Dust Filter Baghouse		Dust filter baghouse, round - capacity 11,000 cfm Material CS 786 sq. ft. of media with an air to media ratio of 4.9:1 at 3889 cfm. Has 112 bags at size 4-1/2" x 144" long. Includes RV-1303 rotary valve with 1.5 HP motor Material 304L Fan detailed separately - see record BF-1301. Used as Grain Handling Dust Filter at hammermill. Part of Hammermill Milling System - see asset PK-1301. For a list of all components, enter PK1301 in search box.	5-13	Hold	1
FA-5431	Dust Filter Baghouse		Dust Collector capacity 20,490 ACFM Material CS. 8 compartment. 224 socks size 120" long. Part of Fluid Bed Cooler package, asset PK-5430 - enter PK5430 for a list of all components.	8-54	Hold	1
FA-8411	Dust Filter Baghouse	MAC	MAC dust Filter Model 96AVS36, Pulse Jet capacity 3,000 CFM. Has 36 bags for 442 sf filter area. Bag size is 6" x 96" long. Physical size is 51" x 51" x 100" s/s with 60 degree cone. On legs x 235" OAH. Flanged hopper on bottom for solids collection. Air Vent Square (AVS) are bottom removal (below the tube sheet) pulse jet filters. Includes motor driven rotary valve Reliance RV-8411 (1.5 HP) and 7.5 HP 1800 rpm motor Fan is by Twin Cities Fan companies, size 913 type RBA, class 22, CW rot - arrgt 4. See links for fan and dust filter. Last used for DDGS Loadout	31-84	Hold	1
FA-1114	Dust Filter Baghouse	Donaldson Torit	Donaldson Torit dust filter with Power core and blower. Has Fike blast panel. Blower is NY Blower 16" PLR, Arr-4V CW rotation. Bag house for unloading pit at small unloading house	3-11	Hold	1
FA-8780	Dust Filter Baghouse (6)	McGill AirClean	Dust filter baghouse. McGill Beta/Mark fabric filter system. Includes 6 modules, structure, house on top with hoist. System designed to handle 96,720 acfm at 280 F - designed to a solid particulate concentration at inlet of 9.74 gr/scfd (max). These are 6 identical modules with bags and cages. Each one is 12 ft x 12 ft x about 35 ft OAH. No fans with this system since it was forced FD air from combustor. Pulse valve system breaks the filtered solids off the outside of bags to hopper for collection. Sold as a set - all 6 of them including pulse jet system and hoist overhead. Last used in fly ash dust collection at CoGen. Building on top and 6 crew conveyors on bottom are available at additional cost. See links for process conditions and layout drawings.	18-6	Hold	6
FA-8402	Dust Filter Baghouse 800 cfm	MAC	MAC Dust filter baghouse, Model 72AVS16-S1Y-11. Pulse Jet, capacity 800 CFM at 8" sp. Has 16 bags for 145 sf filter area. Bag size is 6" x 72" long. Physical size is 34" x 34" x 138" OAH. Flanged hopper on bottom for solids collection. Air Vent Square (AVS) are bottom removal (below the tube sheet) pulse jet filters. Includes motor driven rotary valve (3/4 HP) Reliance and 3HP fan. Fan is Twin Cities Type TPD, size 14B07A, arr 4 CW. - see links for drawing of fan and of filter. Last used for DDGS Storage conveyor Dust Filter. DDGS Storage Dust Filter Fan	24-84	Hold	1
FM-9501	Fluid Strainer 12 inch Automatic	Hellan Strainer Company	Hellan Fluid Strainers, wye configuration automatic. Part# SSP-A2D, Model 1201DA - Size 12" strainer with automatic self cleaning motors and control panel. Capacity 50 gpm, 100 micron screen. Housing is cast steel 125# class. Two 1/3 HP motors 1800 rpm. Control valve on discharge comes with control panel and -XM1 0.33 Hp motor. Used for CIP Filter strainer - located on top of TS-9501	6-95	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
FM-9503	Fluid Strainer 12 inch Automatic	Hellan Fluid Strainers	Fluid Strainer by Hellan Strainer Company size 12" HP 0.33 Material 304 SS Model 1201DA140400XXX Has 2" flush valve Comes with Control Panel and two (2) motors, XM1, XM2 0.33 Hp each. Used as CIP Waste Filer strainer. Located on top of tank TS-5101.	6-95	Hold	1
<b>Heat Exchanger</b>			<b>22 Item(s)</b>			
ET-4202	Evaporator Condenser ss	Thermal Kinetics	Evaporative condenser: Evaporator by Thermal Kinetics. Size 4.5' dia x 50' s/s on 8' cs skirt. OAH approx 60'. Capacity 45.1 MMBTUH, Material ss304L. Design: Tubes FV/25psig, 150F; Shell: FV/75psig, 200F. Used as Thermal Kinetics 3rd and 4th Stage/Second Effect Evaporator	33-42	Hold	1
ET-4113A	Heat Exchanger, frame only	Tranter	Tranter Superchanger plate heat exchanger - FRAME ONLY - plate pack gone. Original design: Model GFP-167-M-8-HP-55, capacity 4.47 MMBTUH Material 304 SS Design 50 psig / 220 deg F. 857 sf See link for drawing and U-1. Last used as Beer Preheater No. 1	33-41	Hold	1
ET-4113B	Heat Exchanger, frame only	Tranter	Tranter Superchanger plate heat exchanger - FRAME ONLY - Plate pack missing. (original design was capacity 4.47 MMBTUH Material 304 SS Design 50 psig / 220 °F. See link for drawing and U-1. 857 sf Last used as Beer Preheater No. 2 )	33-41	Hold	1
EP-3201B	Heat Exchanger, plate	Tranter	Tranter plate heat exchanger 2638.3 sf area, 8.104 MMBTUH. Has 159 plates. Material 316ss. Model GFP-187-M-8-HP-159. ASME Nat'l Bd# 48164, MAWP 150 psi at 300F. Built 2007. Used as Fermenter Cooler 2	7-32	Hold	1
EP-3201C	Heat Exchanger, plate	Tranter	Tranter plate heat exchanger 2638.3 sf area, 8.104 MMBTUH. Material 316ss. Model GFP-187-M-8-HP-159. ASME Nat'l Bd# 48181, sn 304. Has 159 plates. MAWP 150 psi at 300F. Built 2007. Used as Fermenter cooler 3	7-32	Hold	1
EP-3201A	Heat Exchanger, plate	Tranter	Tranter plate heat exchanger 2638.3 sf area, 8.104 MMBTUH. Material 316ss. Model GFP-187-M-8-HP-159. ASME Nat'l Bd# 48165 sn 302. MAWP 150 psi at 300F. Has 159 plates. Built 2007. Used as Fermenter cooler 1	7-32	Hold	1
EP-3101	Heat Exchanger, plate	Tranter	Tranter plate heat exchanger, capacity 1.29 MMBTUH size 436.95 SF Material 316 SS/EPDM Wide Gap exchanger Model GFP-187-M-8-HP-28. Designed to cool fermented Mash with water. Has 28 plates for 436 sf heat transfer area. See link for data and drawing. Last used as Yeast Cooler	6-31	Hold	1
E-2301	Heat Exchanger, plate	Alfa Laval	Alfa Laval exchanger. Model Widegap 350X-FG. Has 135 1.0 mm plates for 2702 sf heat transfer area. Alfa Laval sn 30110-69196, Built 2007. ASME NB# 26752, MAWP 150 psi @ 275F. This is a replacement - replaced EP-2301A & B Last used as Beer/Mash Exch 1.	23	Hold	1
EP-2101	Heat Exchanger, Plate 336sf	Tranter	Plate heat exchanger mfg by Tranter capacity 3.907 MMBTUH size 336.26 SF Material 316 SS/EPDM Model GXD-042-L-5-UP-73. MAWP 150 psi at 300F. 73 plates for 336 sf heat transfer area. Original design water to water heater. See link for data and drawing. This heat exchanger is open - some plates out - but plates and gaskets look good. Last used as Cook Water Pre-Heater	6-21	Hold	1
EP-4108	Heat Exchanger, Plate 8 sf	APV	APV Paraflo heat exchanger capacity 0.1 MMBTUH Material ss316 Plate. Design: 100 psi at 275F. Heat transfer area 8.3 sf. 51 plates. See link for drawing. Last used as Fusel Oil Exchanger	33-41	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
EP-2102	Heat Exchanger, Plate 84 sf	Tranter	Tranter plate heat exchanger, capacity 5.279 MMBTUH size 83.96 SF Material 316 SS/EPDM Model GCP-026-L-5-UJ-32. Original design was water heater - stem on one side, water on other side. MAWP 150 psi at 300F. 32 plates for 83.96 sf heat transfer area. See link for data and drawings. Last used as Cook Water Trim Heater	6-21	Hold	1
EP-2302	Heat Exchanger, Plate Widegap 2772 sf	Tranter	Tranter plate heat exchanger, capacity 11.725 MMBTUH size 2772 SF heat transfer area. 175 plates. MAWP 150 psi at 300F. Material 316 SS/EPDM Wide gap plate 0.8mm exchanger Model GFP-187-M-8-HP-75. Designed to cool cooked Mash using water. Last used as Mash Cooler	6-23	Hold	1
ET-4114	Heat Exchanger, shell & tube 1190 sf	Yula	Yula Corporation shell and tube heat exchanger, capacity 1.8 MMBTUH Model WC-1L-168BBS. Sn 20085. Mfg by Yula ser num 20085, ASME Nat'l Bd# 12472, MAWP shell 170 psi at 360F, tubes 80 psi at 350F Material shell cs, tubes ss 304L. 377 tubes 7/8" dia material ss304L. TEMA type BEM Size 24" OD x 206: OAL - expansion joint in middle. Heat exchange area 1190 sf. Last used as 92% Vapor Superheater.	33-41	Hold	1
ET-4105	Heat Exchanger, Shell & Tube 126sf	Yula	Condenser heat exchanger, shell & tube, Yula model WC-1F-72cs. TEMA type BEM. Capacity 0.35 MMBTUH. Material 304 SS/CS Mfg by Yula ser num 20086, ASME NB# 12473 MAWP shell 100 psi at 250F/tubes FV/100 psi at 250F. Size 14" OD x 122" OAL. TEMA type BEM. Heat exchange area 126 sf. One pass shell cs, 80 tubes 1" dia ss304L. U-1 form and drawing available - see link attachments. Last used as CO2 Flash Reflux Condenser	33-41	Hold	1
ET-9501	Heat Exchanger, shell & tube 285sf	Protherm	Shell & tube heat exchanger mfg by Heat Transfer Systems. Size 14" dia x 13'-11" OAL. Type BEM. Heat Transfer ser num 12910, ASME NB# 1777, MAWP shell 150 psi at 350F/tubes 125 psi at 350F. Material shell cs/tubes ss316. Capacity 5.137 MMBTU. Has 145 tubes at 3/4" OD for 285 sf heat transfer area. See links for drawing and U-1 form. Last used as CIP Heater	6-95	Hold	1
ET-4205	Heat Exchanger, shell & tube 63sf	Yula	Yula shell & tube heat exchanger Model WC-1E-48CS. TEMA Type BEM. Mfg by Yula ser num 20083, ASME NB# 12470 MAWP shell 100 psi at 250F/tubes FV/100 psi at 250F. Capacity 0.1 MMBTUH Material shell cs/ tubes ss 304L Size 12.75 inches OD x 48 inch tube length x 82 inches OAL. Heat exchange area 63 sf Lugs for vertical hanging. See links for drawings and U-1 form. Last used as First Effect Vent Condenser.	33-42	Hold	1
ET-4104	Reboiler condenser ss 4712 sf	Apache Stainless Products	Reboiler, vertical on skirt.. Shell & tubes ss304L, skirt cs. Capacity 11.4 MMBTUH. Mfg by Apache ser num 11031-3, ASME NB# 1524, MAWP shell 75 psi at 250F, tubes 25 psi @ 220F. Size 3'-8" dia x 50 ft s/s with 8 ft cs skirt. Has 300 tubes 1.5" dia x Tube length 40 ft. = 4,712 sq ft heat exchange area. See link for drawings. Last used as Thermal Kinetics Stripper Reboiler/Anhydr. Reflux Condenser stainless	33-41	Hold	1
ET-4103	Reboiler Condenser ss 9424sf	Apache Stainless Equipment	Reboiler, vertical - materials shell & tube ss316/cs skirt. Capacity 25.3 MMBTUH. Size 4'-6" dia x 50 ft s/s . Has 8 ft cs skirt. Mfg by Apache ser num 11031-2 , ASME Nat'l Bd# 1528,MAWP shell 75 psi at 250F, tubes 25 psi at 250F. Has 600 tubes 1.5" dia x 40 ft long = approx 9,424 sq ft heat exchange area. Last used as Thermal Kinetics Stripper Reboiler/Alc. Reflux Condenser stainless	33-41	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
ET-4102	Reboiler Alcohol Condenser 1400sf	Thermal Kinetics	Thermal Kinetics Alcohol Column Reboiler capacity 43 MMBTUH Material 304L tubes/cs Shell. shell and Tube; TS: 75psig, 300F; 150psig, 300F. Size 3'-6" dia x 15'-10" s/s with side. Tubes 12 ft long. - approx 300 tubes for approx 1400 sq ft heat transfer surface area. (No drawing - surface area estimated). Support lugs. Used as reboiler for alcohol column	33-41	Hold	1
ET-4301	Vapor Condenser ss 3769 sf	JD Cousins	JD Cousins Vapor Condenser - Tube bundle in rectangular case for use in tower with 2-75HP fans. Capacity 4.8 MMBTUH Material tubes ss304L/CS. 180 tubes at 2" OD each x 480 in long = approx 3,769 sq ft heat exchange area. - rectangular size approx 66" x 66" x 480" long. Heat exchange area 2160 sf. Mfg by JD Cousins ser num 606-6, ASME NB# 7996 MAWP tubes FV/35psig at 250F; See link for drawings and U-1 form. Last used for Vapor Condenser for regenerated material at DDE cooling tower.	33-43	Hold	1
ET-4204	Vapor Condenser ss 8377 sf	JD Cousins	Vapor Condenser - Tube bundle in rectangular case for use in tower with 2-100HP fans. Capacity 45.7 MMBTUH Material ss304L tubes - 400 tubes at 2" OD x 480" long = approx 8,377 sq ft heat transfer area. Mfg by JD Cousins ser num 606-5A, ASME NB# 7997 MAWP Design: FV/25 psig at 250F. There are 2 sets of these tube like condensers priced separately - sn 606-5A and sn 606-5B. See links for drawings and U-1A forms. Last used as open style vapor condenser on DDE cooling tower.	33-42	Hold	2

## HVAC

5 Item(s)

HR-5001	HVAC Decanter MCC Room 20 ton	Trane	Trane HVAC capacity 20 Ton Unit has a MCA of 56 amps and a MOCP of 60 amps Wall relief fan for economizer cycle will be fed from the HVAC Unit. TEH360A4AU2A2ED1AB0D000000000R S/N C07J09522. Used in Decanter MCC Room.	35-50	Hold	1
HR-9001	HVAC for Cooling Tower MCC 10 ton	Trane	Trane self contained HVAC Unit capacity 10 Ton - at Cooling tower MCC.	15-90	Hold	1
HR-3001	HVAC Process Area MCC Room 20 ton	Trane	Trane HVAC capacity 20 Tons HVAC unit. Model TEH330A4AU2A2DD1AB0D, ser num C07J09523. has MCA of 56 amps and MOCP of 60 amps. 460/3/60 Pressurization fan will be fed from the HVAC unit. Used in Process Area MCC Room HVAC.	6-30	Hold	1
HR-3003	HVAC Unit Laboratory 3 ton	Trane	Laboratory HVAC Unit Trane 3 ton Model TSC036A4REA270200A1B00001, Unit has a MCA of 19.8 amps and a MOCP of 20.0 amps. Serial 737100144L. 460/3/60	6-30	Hold	1
HR-3002	HVAC, Control Room 3 ton	Trane	Trane HVAC 3 Ton Unit. Model TSC036A4REA0U5X. Has an MCA of 19.8 amps and an MOCP of 20.0 amps. Ser num 737100140L. Used as Control Room HVAC Unit	6-30	Hold	1

## Infrastructure

7 Item(s)



Asset	Name	Manufacturer	Description	Location	Status	Qty
HO-2122	Hoop House Dry Storage	Cover-All	Hoop house with metal ribs and covering. Ideal for dry storage flat storage. Approx size 130' wide 175' long x 55 ft tall. Approx area = 22,750 sf. Last used for coal storage to combustor. The land on which this hoop house sits is also available as extra. The entire system is available, however, we will sell equipment individually. The parcel of land under this hoop house dry storage is also available so you do not have to move it - cost extra). See drawing of this hoop house in LINKS. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	21-86	Hold	1
LR-1211	Locker Room	Commercial Structures	Locker Room module - double wide. Has lugs and fork lift slots for easy lift onto truck. Includes a Men's side and a Women's side - toilets, showers, lockers. Heated building with it's own HVAC unit. S/N A74876 & A7485 Built 2008. Includes GE 50 KVA transformer 480 to 240 volts 1 phase.	36-X	Hold	1
BL-8421	Metal Building DDGS Loadout	Sentinel	Metal building - steel frame with metal siding - spans 40ft x 80 ft open area x 30 ft tall, approx 3,200 sq ft. Not insulated. Open on each end for rail car or truck loading access. Currently used as a DDGS loadout system.	24-84	Hold	1
BL-0525	Metal Building Fire Pump		Steel structure building with metal skin. Has personnel door front/back and 2 manual roll-up doors front. Roll up doors are 12x12 and 10x10. Size approx 65 ft x 50 ft for approx 3,250 sq ft. Simple steel pole building. Not available until fire pump sells. Used as RO-fire pump building	28-28	Hold	1
BL-8715	Penthouse Building	IAC	Penthouse - top of CoGen ash baghouse structure. Must be lifted off bahouse structure - there will be no floor. This piece can be lifted off to act as a self contained steel pole building. Dimensions 39 ft long x 35 ft wide. Simple steel pole building. Includes all steel supports and side sheeting - not insulated.	18-6	Hold	1
SC-1001	Rail (railroad)	Scrap RR Rail	Rail inside plant - Three tracks approx 1,472 feet long each for 4,415 feet of track (8,830 ft of single rail). Includes 2 switches and ties under rail as well - wood, new. Installed 2008 - never used. Condition is excellent. Rail is "medium heavy" weight at 127 (127 #/yd). There is approximately 2,944 yards altogether of single rail for approx 373,854 pounds of steel. Includes ties under rails as well. Stamp on rail reads Algoma Canada 127 LB SEC 139-OH-1946 III, another stamp reads 127-22-OH Illinois 1934 IIIII. A section of rail is 36 ft - 8 in long. Rail measurements are 3" across top, 7 inches high, 6 inches across bottom. Ties are 3,520 ties per mile of track so = approx 2,943 ties.	24-02	Hold	1
6124	Stairway Tower		Metall stairway to top of tanks. Stair tower All galvanized, 45 degree stairs, side by side. Approx width 8 to 10 feet, approximate height 50 ft. Solid structure with catwalk at top, 4 platform levels	at beer well	Hold	1

### Instrument

1 Item(s)

FT-4101-014	Flow Meter	Rosemount	Rosemount flow transmitter 10 inch flow meter SS 316 with transmitter 40441 CF8M	8-41-3	Hold	1
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### Material Handling

6 Item(s)

ME-1801	Bridge Crane Hoist 2 Ton	Spacemaster	Traveling bridge crane with electric remote 2 ton hoist. Last used in CoGen baghouse over filters in penthouse	18-18	Hold	1
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Asset	Name	Manufacturer	Description	Location	Status	Qty
BS-011	Bulk Weigh Scale	Compuweigh	Bulk weigh scale and tower. Sized for 15,000 bu/hr. With hopper and rotary valve. It has 3 chambers – upper garner stationary, a middle hopper on 4 load cells, and a lower garner that empties into the drag conveyor. This is a Compuweigh Model CWC-158S. S/N 4908. The CWC-158S will do 15,000 bu/hr. The upper garner is 240 cu ft, the weight hopper is 160 cu ft, and the lower garner is 200 cu ft. The slide gates are hydraulically driven. Hydraulic system is 5 HP motor 460/3/60, 8 gpm with 20 gallon tank. Scale Overall height is 27'-8" which includes 4' of upper garner extension. Tower size is 8' x 8' x 40' tall. Equipment does not include DWC-400 . Compuweigh Shop Drawing 4909-158S60ST.	24-84	Hold	1
SL-015	Loadout Spout	SLY	Sly XP bulk material loading spout - model XP-12. Has internal stacking cones to direct material flow. When used with a negative pressure dust collection system, it is truly dust-free. Rated at 240 tons/hr. See drawing link. Part of complete DDGS loadout system - Enter "PK8420" into keyword search box for system and all components.	24-84	Hold	1
TS-9141	Metering Bin Feeders Biomass	EPI	Metering bin feeder originally for coal and lime but can be used for other biomass material. Includes screw conveyor with 5 HP motor VFD 1200 rpm. Includes diverter and chutes at infeed, and stoker assembly. There are 2 of these - Priced for BOTH. Weight of each feeder is approx 20.475 pounds. Built 2007 - used very little in 2008, idled in 2009. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	16-17	Hold	2
SL-9144	Spout Loadout	SLY	Truck loadout funnel - Extendable, electric pendant control. Designed for loading grain at 319 t/hr max. See link for drawing. Used at ash bin CoGen. Part of Silo TS-9143 and not sold separately.	18-20	Hold	1

## Mixers

4 Item(s)

AT-3201A	Tank Agitator Top Entering	Lightnin	Lightnin vertical top entering agitator, Model 76C25, sn R068285101. Right angle gearbox - Ratio 31.6, 37 rpm, clockwise rotation - driven by 25HP motor, 1180 rpm 460/3/60. Like new - idle since 2009. Agitator has 3 sets of tri-blades type A510E with bottom steady bearing. Agitator rpm 37. Shaft size 4 inches, length from gearmotor flange to bottom of steady bearing is 654 inches. There are 3 of these agitators - if all 3 are bought as a package, removal will be much less. (Tank is too big to transport but Agitator for sale). Used as Fermenter Tank 3201 agitator	7-32	Hold	1
AT-3201B	Tank Agitator Top Entering	Lightnin	Lightnin Agitator designed for capacity 178,093 gpm @ 64000 in-lbs size 76 C 25 Driven by 25Hp motor 1180 rpm. Material 304 SS Final speed is 38 rpm Impeller diameter is 115 inches. Agitator has 3 sets of tri-blades type A510E with bottom steady bearing. Agitator rpm 37. Shaft size 4 inches, length from gearmotor flange to bottom of steady bearing is 654 inches. There are 3 of these agitators - if all 3 are bought as a package, removal will be much less. (Tank is too big to transport but Agitator for sale). Used as Fermenter tank 3201 agitator	7-32	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
AT-3201C	Tank Agitator Top Entering	Lightnin	Lightnin Fermenter Tank Agitator designed for capacity 17,8093 gpm @ 64000 in-lbs size. Model 76 C 25 Driven by 25 HP motor 1180 rpm. Material 304 SS Final speed is 38 rpm Impeller diameter is 115 inches. Agitator has 3 sets of tri-blades type A510E with bottom steady bearing. Agitator rpm 37. Shaft size 4 inches, length from gearmotor flange to bottom of steady bearing is 654 inches. There are 3 of these agitators - if all 3 are bought as a package, removal will be much less. (Tank is too big to transport but Agitator for sale). Used as fermenter tank agitator	7-32	Hold	1
AT-5301	Tank Agitator Top Entering	Lightnin	Lightnin Agitator. Has tripod steady bearing. Model 72C2. Driven by 2 HP motor 1200 rpm, with right angle gear unit final rpm is 36 rpm. Material 304 SS, 12" mounting flange. Has one set of 3-blades type A510E Impeller diameter is 67 inches. Shaft is 2" dia x Overall length of shaft is 348 inches. See links for drawing. Used for Syrup Tank agitator tank size 20' dia x 25' tall.	8-53	Hold	1

## Piping

40 Item(s)

VV-4101-001	Automatic Control Valve 10"		10 inch ss Butterfly valve at Mole Sieve 1	8-41-3	Hold	1
PVV-9201	Back flow preventer system		Back Flow Preventer System. All 16 inch pipe with 10 inch meter	27-92	Hold	1
ME-5447	Butterfly Valve		Butterfly Valves (Qty 4). Size 40". Lugged, ss 304, Pneumatic automatic actuator. (On vent stack line horizontal at end of dryer). Quantity (4) - priced as a lot. Part of the rotary dryer package - enter PK5410 for all components	8-54	Hold	4
VV-5411	Butterfly Valve	Jamesbury	Jamesbury butterfly Valve PIC9101-015 with Metso pneumatic actuator B1, model B1JU20/70L	8-54	Hold	1
PIC4101-20	Butterfly Valve 10"	Metso	10 inch Butterfly Valve, 316 ss, Metso auto controller/actuator, lugged	8-41-3	Hold	1
HC3202-11	Butterfly Valve 14"	Jamesbury	14 inch butterfly valve 304ss CF8M lug, rated at 150 psi, with Jamesbury pneumatic actuator	7-32	Hold	1
HC3201-26	Butterfly Valve 14"	Jamesbury	14 inch butterfly valve 304ss CF8M lug, rated at 150 psi, with Jamesbury pneumatic actuator	7-32	Hold	1
HC3201-11	Butterfly Valve 14"	Jamesbury	14 inch butterfly valve 304ss CF8M lug, rated at 150 psi, with Jamesbury pneumatic actuator	7-32	Hold	1
VV-4110	Butterfly Valve 16"		16 inch Manual butterfly valve, lugged, 316ss with manual gearwheel actuator	8-41	Hold	1
VV-4113	Butterfly Valve 18" Manual		18 inch Manual Butterfly Valve 316ss lugged	8-41	Hold	1
VV-4111	Butterfly Valve 20"		20 inch manual butterfly valve 316ss	8-41	Hold	1
VV-4112	Butterfly Valve 24"		24 inch Manual Butterfly Valve 316ss lugged	8-41	Hold	1
HC3202-19	Butterfly Valve 6"	Jamesbury	6 inch butterfly valve 304ss CF8M lug, rated at 150 psi, with Jamesbury pneumatic actuator	7-32	Hold	1
HC3202-01	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304ss CF8M lug valve, rated at 150 psi, with Jamesbury pneumatic actuator	7-32	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
HC3201-34	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304ss CF8M lug, rated at 150 psi, with Jamesbury pneumatic actuator	7-32	Hold	1
HC3201-32	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304ss CF8M lug, rated at 150 psi, with Jamesbury pneumatic actuator	7-32	Hold	1
HC3201-40	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304ss CF8M lug, rated at 150 psi, with Jamesbury pneumatic actuator	7-32	Hold	1
HC3201-1	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304ss CF8M lug, rated at 150 psi, with Jamesbury pneumatic actuator	7-32	Hold	1
XV-2301-21	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304SS CF8M lug rated at 150 psi with Jamesbury pneumatic actuator	6-23	Hold	1
XV-2301-22	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304SS CF8M lug rated at 150 psi with Jamesbury pneumatic actuator	6-23	Hold	1
XV-2301-20	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304SS CF8M lug rated at 150 psi with Jamesbury pneumatic actuator	6-23	Hold	1
XV-2301-25	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304SS CF8M lug rated at 150 psi with Jamesbury pneumatic actuator	6-23	Hold	1
XV-2301-14	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304SS CF8M lug rated at 150 psi with Jamesbury pneumatic actuator	6-23	Hold	1
XV-2301-26	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304SS CF8M lug rated at 150 psi with Jamesbury pneumatic actuator	6-23	Hold	1
XV-2301-27	Butterfly Valve 8"		8 inch butterfly valve 304SS CF8M lug rated at 150 psi with Jamesbury pneumatic actuator	6-23-2	Hold	1
XV-2301-16	Butterfly Valve 8"		8 inch butterfly valve 304SS CF8M lugged rated at 150 psi with Jamesbury pneumatic actuator	6-23	Hold	1
XV-2301-55	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304SS CF8M lugged rated at 150 psi with Jamesbury pneumatic actuator	6-23	Hold	1
XV-2301-33	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304SS CF8M lugged rated at 150 psi with Jamesbury pneumatic actuator	6-23	Hold	1
XV-2301-15	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304SS CF8M lugged rated at 150 psi with Jamesbury pneumatic actuator	6-23	Hold	1
XV-2301-29	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304SS CF8M lugged rated at 150 psi with Jamesbury pneumatic actuator	6-23	Hold	1
XV-2301-46	Butterfly Valve 8"	Jamesbury	8 inch butterfly valve 304SS CF8M lugged rated at 150 psi with Jamesbury pneumatic actuator	6-23	Hold	1
FV-9301	Fire Valves 6"		Fire Valves (Qty 4). Size 6 inch fire valves and alarm system in manifold. Set of 4 - includes piping manifold and instrumentation	37-93	Hold	4
PSV-33200	Pressure Relief Valve	Leser	Pressure Relief Valve, Leser Type 5262T6765, Inlet/Outlet 8" x 10" with 300 # flanges. Size & orifice SXTX10. Steam relief valve set at 181.5 psi, flow 380,793 #/hr steam. Ser num 26111097-B-2. Used at CoGen	16-4-2	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
PSV-33100	Relief Valve	Leser	Pressure Relief Valve, Leser Type 5262T6765, Inlet/Outlet 8" x 10" with 300 # flanges. Size & orifice SXTX10. Steam relief valve set at 181.5 psi, flow 380,793 #/hr steam. Used at CoGen	16-4-2	Hold	1

## Plants/Ethanol

1 Item(s)

PK-8405	Ethanol Plant 38MGY partial & CHP 4MW	Lurgi & Fagen	<p>### Ethanol plant 38 MGY (partial) and CHP 4 MW ###  Ethanol plant including all assets, buildings, and approx 25 acres of land for sale. Plant has nameplate rating of 38 MGY (million gallons per year). Includes coal fired HRSG and CHP plant rated at 4 MW. This plant was tested in 2009, but never produced. Idled in 2009 - assets are clean, empty, and shiny. Lurgi design modified by Fagen Engineering built in 2008-2009. Process is corn dry mix fermentation. Most of the equipment is still there although it missing the decanters, air compressors, hammermills, boiler, cooling tower, some tanks, some pumps, some electrical. See Equipment List in document Links. Virtual data room (VDR) available for request for many more details.</p> <p>CHP Package: Combined Heat and Power provided steam for the operation and 4 MW power at 12.4 KV. The package includes EPI Outetec coal fired combustor, fly ash control and silo, and Rentech HRSG generating steam at 130,000 lbs/hr at 650 psig for turbine generator + export steam of 125,000 lb/hr at 150 psig to the operarion. Gen-Set Package (Includes Murray Turbine, Ideal Generator, Lube system, and control panel). Output is 5000 KVA at 12.4 KV 60 Hz 3 phase. Was guaranteed at 4,012 KW. The steam turbine and generator are skidded together, Lube Oil skid separate. Length of unit approx 26'-7" x Width of unit approx 10'-1". System integrated by Murray Turbine. See box flow diagram and drawings in links.</p>	Canton, IL	Sell	1
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## Process

32 Item(s)

TW-3501	CO2 Scrubber	Ducon	CO2 packed tower Scrubber mfg by Ducon. Designed to remove ethanol from CO2 gas stream. For inlet 4915 ACFM @ 92 °F . Pressure atmospheric. Scrubber liquid water. Size 3'-6" dia x 25' Material FRP. Ashland Hetron 992. Includes mist eliminator, polypropylene. For more detailed data and a drawing of this vessel - see links. This unit is part of the scrubber Package. For a list of that package and all components, enter "PK3501" into the keyword search box.	2-35	Hold	1
BF-9420	Cooling Tower Fans	Hudson	Two cooling tower fans - sold as a set. Tower is not moveable - fans and drives only for sale. Fan description: Hudson induced draft fans 14 ft dia - 8 blades, blade type H. Designed for 316,690 cfm. Fan speed 272 rpm. Each fan has a right angle gear unit Amarillo Gear. Driven by 75 HP motor. See links for data sheet and drawing. Used as cooling tower blades for DDE Evap. Qty (2) - priced for the set	33-94	Hold	2
CY-5410	Cyclone - Dryer No. 1	Barr-Rosin	High efficiency cyclone 139.5 inches OD x 11 ft ST/SD with 60 degree cone 118" - OAH = 250 inches. Capacity 29,444 ACFM, Material ss 304L. Mfg by Modern Welding, See links for drawing. Approx 46 ft-6" tall. Last used as Barr-Rosin High Efficiency Cyclone - Dryer No. 1, Part of Dryer #1 ancillary package - enter PK5410 for a list of all components.	8-54	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
CY-5420	Cyclone - Dryer No. 2	Barr-Rosin	High efficiency cyclone, capacity 24,271 ACFM Material ss 304L. 139.5 inches OD x 11 ft ST/SD with 60 degree cone 118" - OAH = 250 inches. Last used as Barr-Rosin High Efficiency Cyclone - Dryer No. 2. Part of Dryer #2 ancillary package - enter PK5420 for a list of all components.	8-54	Hold	1
CY-9142	Cyclone Multiclone	Rentech	Cyclone in CoGen - Rentech MultiClone designed for 141,790 cfm - has been on fire. Weight approx 10,450 pounds plus structure & duct 15,000 pounds. No removal labor included. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	16-3	Hold	1
FH-8201	Flare Package - Dual Loadout System	John Zink	Enclosed flare package designed by John Zink Company. VC Enclosed flare Model ZCT-1-4-25x1/6. This unit was designed for a loading rate of 1200 gpm of Ethanol with a max heat release of 5.2MMBtu/hr. Includes Flare Combustion Air Blower with 15HP motor, and Knock out pot 70 gallons size 24" x 36". Local controls. Sold as a set. Material cs. Used as flare for ethanol rail loadout.	17-24	Hold	1
DB-5430	Fluid Bed Cooler	Barr-Rosin	Barr-Rosin Fluid Bed Cooler capacity 31,828 PPH Material CS/304L. Cooler appears to have had a fire - will probably need to be reconditioned. Part of fluid bed cooler package - enter PK5430 for a list of all components.	8-54	Hold	1
MH-1301	Hammermill 250HP	Bliss	Bliss hammermill model E-4430-TF. Capacity 1260 cfh (63,000 pounds/hr) #2 yellow corn (45 pcf). 3600 sq in screen area. Material CS. Hammermill in left-hand configuration. Driven by 250 HP motor 1800 rpm X-proof 460/3/60. Serial number 6717. Includes feeder and magnet, monitoring controls, and outlet hopper. Physical size 50" x 110" x 40" tall. Outlet 36x30. Has been idle since 2009 - will need some reconditioning and bearings. See drawing link. Rotary Valve feeder capacity 1550 CFH HP 3 RPM 1800 Material 304 SS. Used as Hammermill #1. Not sold separately at this time. Part of milling package - for all components enter PK1301 in search box	5-13	Hold	1
MH-1302	Hammermill 250HP	Bliss	Bliss hammermill model E-4430-TF. Capacity 1260 cfh (63,000 pounds/hr) #2 yellow corn. 3600 sq in screen area. Material CS. Hammermill in right-hand configuration. Driven by 250 HP motor 1800 rpm X-proof 460/3/60. Serial number 6718. Includes feeder and magnet, monitoring controls, and outlet hopper. Physical size 50" x 110" x 40" tall. Outlet 36x30. Has been idle since 2009 - will need some reconditioning and bearings. See drawing link. Rotary Valve feeder capacity 1550 CFH HP 3 RPM 1800 Material 304 SS. Used as Hammermill #2. Used as Hammermill #1. Not sold separately at this time. Part of milling package - for all components enter PK1301 in search box	5-13	Hold	1
CH-9401	Hydrocyclone	Lakos	Lakos Filtration hydrocyclone, Model JPL-0650-V/FLG. Has 6 inch inlet/outlet. Flow range 650 to 1200 gpm with pressure loss of 3 to 12 psi. Max pressure 150 psi. S/N 40134-001. Used as Cooling Tower Hydrocyclone.	14-94	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
JE-3150	HydroHeater	Hydro Thermal	HydroHeater. Jet cooker. Mfg by Hydro Thermal.com. Model K513-AS. Serial number 61992. Direct steam injection for jet cookers. Uses a Fisher pneumatic reverse-acting diaphragm actuator. Wetted parts 316 ss, stellite internals. Rated at 150 psi at 400F. Designed for ethanol "beer" at 576 gpm 150F IN/185F OUT. Density 8.24, 12% solids. Connections: 4" inlet, 4" discharge. Overall length 58". See Links for more information (Note: Drawing is for a different model K514 and is shown as representative only. All sizes and weights are not correct for a K513 hydro Heater).	7-31-2	Hold	1
TP-2201	Mash Cooker, Vertical Tank ss	Kennedy Tanks	Cook tube vertical stainless steel tank on cs skirt. Mfg by Kennedy Tanks capacity 4,300 gallons size 6'-6" Dia x 16.0' x 22 ft OAH. ASME NB# 7714, MAWP 150psi/FV at 366F. Material ss304L/cs skirt. Dish top/dish bottom - insulated, side entering manhole. Includes Lightnin Agitator model 15S2 Gear box gone, shaft & motor removed - almost no value left on agitator. See links for drawings of both tank and agitator.	6-22	Hold	1
MB-5420	Paddle Mixer Pre-mixer	Barr-Rosin	Barr-Rosin High Speed Single-Shaft Pre-Mixer - Dryer No. 2 capacity 52635 PPH HP 75 RPM 1800 Material 304L. Part of dryer package - for all components, enter PK5450 in search box. Part of Dryer #2 ancillary package - enter PK5420 for a list of all components.	8-54	Hold	1
MB-5410	Paddle Mixer ss	Barr-Rosin	Single Shaft Paddle Mixer mfg by Barr-Rosin. Size 30" dia x 15' long, Material ss304L. Designed for capacity 77,546 pph WDG. Driven by 75 HP v-belt 1800 rpm. Used as Dryer No. 1 paddle mixer Part of dryer package - for all components, enter PK5450 in search box. Part of Dryer #1 ancillary package - enter PK5410 for a list of all components.	8-54	Hold	1
MB-5421	Paddle Mixer ss	Barr-Rosin	Paddle Mixer mfg by GEA Barr-Rosin. Size 4'-9" wide x 22' long. Double paddle mixer. Material ss304L. Capacity 74,906 PPH. Driven by 100 HP v-belt motor 1800 rpm. See link for drawing. Used as Barr-Rosin Double Paddle Mixer - Dryer No. 2. Part of Dryer #2 ancillary package - enter PK5420 for a list of all components.	8-54	Hold	1
TW-3502	Process Scrubber	Ducon	Process Scrubber mfg by Ducon. Designed for inlet gas volume 1001 ACFM @ 141 °F. Scrubber liquid water. Size 2' 6" dia x 24' Packing material Ashland Hetron 992, FRP, mist eliminator. For more detailed data and a drawing of this vessel - see links. This unit is part of the scrubber Package. For a list of that package and all components, enter "PK3501" into the keyword search box.	2-35	Hold	1
DR-5410	Rotary Steam Tube Dryer No. 1 (only)	Davenport	Davenport Rotary Steam Tube Dryer No. 1 Size 11.75 ft dia x 70 ft. Model RSTD. Ser num 33007. Designed for evap capacity 29,397 #/hr. Material 304L. Driven by 100HP motor, Inverter Duty, 405T frame Motor, Sumitomo Reducer #PHD9075P3-LR-80, Falk LS - 1170T10, HS - 1080T10. Widest part for shipping is approximately 14ft-7in dia. With gear left on. Has 210 tubes 4.5 inch sch 10 pipe, material ss304L Weight of drum only is 253,000 pounds. This is for the rotary steam tube dryer only. Part of the rotary dryer package - for a list of all ancillary components (priced separately), enter PK5410 in search box.	8-54	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
DR-5420	Rotary Steam Tube Dryer No. 2 (only)	Davenport	Davenport Rotary Steam Tube Dryer No. 2 Size 11.75 ft dia x 70 ft. Model RSTD. Designed for evap capacity 29,397 #/hr. Material 304L. Driven by 75HP motor, Inverter Duty, 405T frame Motor, Sumitomo Reducer #PHD9075P3-LR-80, Falk LS - 1170T10, HS - 1080T10. Widest part for shipping is approximately 14ft-7in dia. With gear left on Has 210 tubes 4.5" sch 10 pipe, material ss304L Weight of drum only is 253,000 pounds. This is for the rotary steam tube only. Part of the rotary dryer package - for a list of all ancillary components (priced separately) , enter PK5420 in search box.	8-54	Hold	1
RV-5410	Rotary Valve	Rotolok	Rotary Valve by Rotolok - 16" square. Driven by a 1.5 HP motor. Body cast iron, rotor stainless steel 304. Used as rotary valve on Dryer No. 1 Cyclone. Part of Dryer #1 ancillary package - enter PK5410 for a list of all components.	8-54	Hold	1
RV-5411	Rotary Valve		Rotary valve capacity 49,149 PPH HP 7.5 Material 304 SS. Used as Dryer No. 1 Discharge Rotary Valve from screw conveyor CS-5412. Part of Dryer #1 ancillary package - enter PK5410 for a list of all components.	8-54	Hold	1
RV-5420	Rotary Valve	Rotolok	Rotary Valve by Rotolok - 16" square inlet. Material body cast iron, rotor ss304. Driven by 1.5 HP motor. Used as rotary valve on Dryer No. 2 Cyclone. Part of Dryer #2 ancillary package - enter PK5420 for a list of all components.	8-54	Hold	1
RV-5421	Rotary Valve		Rotary Valve capacity 54099 PPH HP 7.5 Material 304 SS. Used as Dryer No. 2 Discharge. Part of rotary dryer package from screw CS-5422. Part of Dryer #2 ancillary package - enter PK5420 for a list of all components.	8-54	Hold	1
RV-5430	Rotary Valve		Rotary Valve capacity 28645 PPH HP 1.5 RPM 1800 Material 304L. Used as Fluid Bed Inlet rotary valve at dryer. Part of the rotary dryer system. Enter PK5450 for a list of all components.	54	Hold	1
RV-5431	Rotary Valve		Rotary Valve capacity 28645 PPH HP 1.5 RPM 1800 Material 304L. Used as Fluid Bed Outlet rotary valve. Part of Fluid Bed Cooler package - enter PK5430 for a list of all components.	8-54	Hold	1
RV-5434	Rotary Valve	Barr-Rosin	Rotary Valve HP 1 RPM 1800 Material 304L. Used as Dust Collector rotary valve. From CS-5431. Part of Fluid Bed Cooler package - enter PK5430 for a list of all components.	8-54	Hold	1
RV-9101	Rotary Valve Airlock	Carolina Conveying	Airlock, mfg by Carolina Conveying - Model 12RVC. Motor driven, used on conveyors at ash baghouse CoGen	18-6 NE	Hold	1
RV-9102	Rotary Valve Airlock	Carolina Conveying	Airlock used on ash conveyor at ash baghouse CoGen	18-6 SE	Hold	1
ME-3503	Scrubber Exhaust Stack ss	Ducon	Ducon Scrubber Exhaust Stack capacity 5500 ACFM @ 70 deg F size 70' high Material 304 SS. Stack size 30" dia transitioning to 20" dia at 45' level x 70 ft tall. Part of Scrubber system package. For more detailed data and a drawing of this vessel - see links. This unit is part of the scrubber Package. For a list of that package and all components, enter "PK3501" into the keyword search box.	2-35	Hold	1
ME-5441	Stack		Stack, carbon steel - size approx 3' dia x 30 ft tall. Must be remeasured for an accurate measurement. Designed for capacity 20,490 ACFM. Carbon Steel. Used for Fluid Bed Cooler Dump/Purge Stack. Part of fluid bed cooler package - enter PK5430 for a list of all components.	8-54	Hold	1



Asset	Name	Manufacturer	Description	Location	Status	Qty
ME-5440	Stack ss		Stack stainless steel 304, self supporting. Designed for 44761 ACFM. Approx. 4 ft diameter x 50 ft. Used as Dryer System Dump/Purge Stack. Part of Dryer #1 ancillary package - enter PK5410 for a list of all components.	8-54	Hold	1
LS-9150	Volumetric Powder Feeder	Vibra Screw	VibraScrew volumetric powder feeder, Model Versifeeder, size 3 inch (will have to be verified). Includes hopper, DC Baldor motor 1HP, vibrator, and 3" screw. Capacity approx 7.4 to 74 cu ft/hr. Contact material ss304 stainless. Physical size approx 27" x 18" x 48" high for feeder assembly - underlying structure table included in sale (not in measurements). See links for specs and schematics.	18-10	Hold	1
<b>Pump</b>		<b>51 Item(s)</b>				
PC-9139A	Boiler Feedwater Pump	Ingersoll-Dresser	Ingersoll horizontal multi stage centrifugal pump for boiler feedwater. Ingersoll Dresser Size 3x10DA-5 5 stage designed for 450 gpm @ 1770 ft TDH. EQ #41331 (31301). Driven by 300 HP motor at 3575 rpm 460/3/60. Used as Boiler feedwater pump to Rentech and to Nebraska boiler. Pump 1. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box.	16-17	Hold	1
PC-9139B	Boiler Feedwater Pump	Ingersoll Dresser	Ingersoll horizontal multi stage centrifugal pump for boiler feedwater. Ingersoll Dresser Size 3x10DA-5 5 stage designed for 450 gpm @ 1770 ft TDH. EQ #41331 (31301). Driven by 300 HP motor at 3575 rpm 460/3/60. Used as Boiler feedwater pump to Rentech and to Nebraska boiler. Pump 2. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box.	16-17	Hold	1
PC-4002	Centrifugal Pump	Goulds	Goulds Pump capacity 30 gpm @ 60 TDH size 3196 - 1x1.5-8 , impeller dia 7.25"., material 316ss. Driven by motor HP 3 RPM 1750. See link for drawing and pump curve. Last used as Evaporative Cooler Blow Down Pump.	34-40	Hold	1
PC-8201	Centrifugal Pump	Goulds	Goulds Pump model 3196 designed for Capacity 600 gpm @ 93 TDH size 3196 - 4x6-13, impeller dia 9.75". Material DI. Driven by 30 HP motor 1800 rpm. See link for drawing and pump curve. Last used as 200 Proof Pump.	11-82	Hold	1
PC-8204	Centrifugal Pump	Goulds	Goulds Pump model 3180 designed for 1200 gpm @ 338 TDH size 3180 - 4x8-19, impeller dia 17.8125" Material AI/SS. Driven by motor HP 200 RPM 1800. Use link for drawing and pump curve. Last used as Ethanol Loadout Pump.	11-82	Hold	1
PC-8205	Centrifugal Pump	Goulds	Goulds model 3196 centrifugal pump designed for 50 gpm @ 125. Size 1x1.5-6. Material DI. Driven by motor HP 7.5 RPM 3600. Last used as Day Tank Pump.	11-82	Hold	1
PC-9401	Centrifugal Pump	Goulds	Goulds Pump model 3196 designed for capacity 4,350 gpm @ 156 TDH. Size 8x10-16H, impeller dia 14.5". Material CI/DI. Driven by 250 HP motor 1800 rpm frame 449T. Motor will not hand rotate. See link for pump drawing and pump curve. Used as Cooling Tower Pump No. 1.	14-94	Hold	1
PC-9402	Centrifugal Pump	Goulds	Goulds Pump model 3196 designed for capacity 4,350 gpm @ 156 TDH. Size 8x10-16H, impeller dia 14.5". Material CI/DI. Driven by 250 HP motor 1800 rpm frame 449T. Motor will not hand rotate. See link for pump drawing and pump curve. Used as Cooling Tower Pump No. 2	14-94	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
PC-9403	Centrifugal Pump	Goulds	Goulds Pump model 3196 designed for capacity 4,350 gpm @ 156 TDH. Size 8x10-16H, impeller dia 14.5". Material CI/DI. Driven by 250 HP motor 1800 rpm frame 449T. Motor will not hand rotate. See link for pump drawing and pump curve. Used as Cooling Tower Pump No. 3	14-94	Hold	1
PC-9404	Centrifugal Pump	Goulds	Goulds Pump model 3196 designed for capacity 4,350 gpm @ 156 TDH. Size 8x10-16H, impeller dia 14.5". Material CI/DI. Driven by 250 HP motor 1800 rpm frame 449T. See link for pump drawing and pump curve. Used as Cooling Tower Pump No. 4	14-94	Hold	1
PC-4103	Centrifugal Pump ss	Goulds	Goulds Pump Model 3196 designed for Capacity 1300 gpm @ 55 TDH. Size 6x8-15, impeller dia 12.625". Material ss316 wetted parts. Driven by 40 HP motor 1200 rpm. See link for drawing and pump curve. Last used as Stripper Reboiler/Alc. Reflux Condenser (ET-4103) Pump. Beer bottom.	33-41	Hold	1
PC-9503	Centrifugal Pump ss	Goulds	Goulds Pump model 3196 designed for capacity 50 gpm @ 63 TDH. Size 1x2-10, impeller dia 7.875", ser num 728F505W3. Material wetted parts ss316. Driven by 5 HP motor 1750 rpm. Last used as Waste CIP pump.	6-95	Hold	1
PC-9107B	Centrifugal Pump ss	Flowserve	Flowserve centrifugal pump - deaerator water feed. Model MK3B2D Size 2K3x2-82RV, Impeller diameter 7.44" Designed for 305 gpm at 190 ft TDH (151,890 lbs/hr). S/N 11006-1980A 2nd pump 11006-1980B, DM 11-15-2006 Min Temp 100 deg, 275 psi, MDP-D4-CF8M. Driven by 25 HP motor 3560 rpm. Last used as deaerator feed pumps CoGen.	17-12	Hold	1
PC-3201B	Centrifugal Pump ss	Goulds	Goulds pump model 3180 10x12-16 designed for 3800 gpm at 68 TDH. Impeller dia 390x350 (15.38" x 13.75"). Sn 258C051-2. Wetted parts 316ss, Has John Crane mechanical seal. Motor 125 HP, 1190 rpm 460/230 3/60, TEFC, frame 445T. Includes pump, base, motor, coupling, guard. See link for drawing and pump curve. Used last as Fermenter pump.	7-32	Hold	1
PC-3201C	Centrifugal Pump ss	Goulds	Goulds pump model 3180 10x12-16 designed for 3800 gpm at 68 TDH. Impeller dia 390x350 (15.38" x 13.75"). Sn 258C051-3. Wetted parts 316ss, Has John Crane mechanical seal. Motor 125 HP, 1190 rpm 460/230 3/60, TEFC, frame 445T. Includes pump, base, motor, coupling, guard. See link for drawing and pump curve. Last used as Fermenter Pump 3.	7-32	Hold	1
PC-3201A	Centrifugal Pump ss	Goulds	Goulds pump model 3180 10x12-16 designed for 3800 gpm at 68 TDH. Impeller dia 390x350 (15.38" x 13.75"). Sn 258C051-1. Wetted parts 316ss, Has John Crane mechanical seal. Motor 125 HP, 1190 rpm 460/230 3/60, TEFC, frame 445T. Includes pump, base, motor, coupling, guard. See link for drawing and pump curve. Last used as Fermenter Pump 1.	7-32	Hold	1
PC-3502	Centrifugal Pump ss	Goulds	Goulds Pump model 3196. designed for Capacity 60 gpm @ 86 TDH, Size 1x1.5-6, impeller dia 4.625". HP 5 RPM 3600 Material 304 SS. Last used as Process Scrubber Pump. For more detailed data and a drawing of this vessel - see links. This unit is part of the scrubber Package. For a list of that package and all components, enter "PK3501" into the keyword search box.	2-35	Hold	1
PC-3601	Centrifugal Pump ss	Goulds	Goulds Pump model 3196 designed for Capacity 30 gpm @ 104 TDH size 1x2-10, impeller dia 9.375". Material ss316. Driven by 7.5 HP motor 1800 rpm. See link for pump drawing and pump curve. Last used as AA Enzyme Mix Pump	6-36	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
PC-3604	Centrifugal Pump ss	Goulds	Goulds Pump Model 3196 Capacity 30 gpm @ 104 TDH size 1x2-10, impeller dia 9.375. Material ss316. Driven by motor HP 7.5 RPM 1800. See link for pump curve and drawing. Last used as GA Enzyme Mix Pump	6-36	Hold	1
PC-3606	Centrifugal Pump ss	Goulds	Goulds Pump model 3196 designed for capacity 60 gpm @ 109 TDH size 1x1.5-6 Impeller dia 5.25", Material ss316. Driven by motor HP 7.5 RPM 3600. See link for pump curve and drawing. Last used as Enzyme Blend Tank Pump	6-36	Hold	1
PC-4105	Centrifugal Pump ss	Goulds	Goulds Pump Model 3196 designed for 560 gpm @ 90 TDH. Size 4x6-17, impeller dia 14.625". Material ss316 wetted parts Driven by motor HP 30 RPM 1180. See link for drawing and pump curve. Last used as Beer Col. Feed Pump	33-41	Hold	1
PC-4110	Centrifugal Pump ss	Goulds	Goulds model 3196 STX designed for capacity 55 gpm @ 230 TDH. Size 1x1.5-8, impeller dia 7.125". Material ss316 wetted parts. Driven by motor HP 15 RPM 3550. See link for drawing and pump curve. Last used as Rectifier Bottoms Pump in DDE	33-41	Hold	1
PC-4204	Centrifugal Pump ss	Goulds	Goulds Pump Model 3196 rated at 100 gpm @ 140 TDH , sn 729F51743. size 1.5x3-13, impeller 12.375. Material ss316. Driven by 15 HP motor 1750 rpm. See link for drawing and pump curve. Last used as Condenser Condensate Pump under TP-4204	33-42	Hold	1
PC-4205	Centrifugal Pump ss	Goulds	Goulds Pump Model 3196, designed for Capacity 150 gpm @ 150 TDH. Size 2x3-13, impeller dia 12.250". Material ss316 wetted parts . Driven by motor 20 HP RPM 1770. See link for drawing and curve. Last used as Rectifier Column Feed Pump	33-42	Hold	1
PC-4208	Centrifugal Pump ss	Goulds	Goulds Pump model 3196 MTX designed for Capacity 50 gpm @ 60 TDH. Size 1x2-10, impeller dia 8.635". Material ss316 wetted parts with seal pot. Driven by motor HP 7.5 RPM 1750. Last used as pump to 2nd effect Syrup Tank (TF-5301) pump at DDE	33-42	Hold	1
PC-4303	Centrifugal Pump ss	Goulds	Goulds model 3196 designed for capacity 100 gpm @ 60 TDH. Material wetted parts ss304. Size 1.5x3-10, impeller dia 8". Ser num 729F521P3. Driven by explosion proof 5 HP motor RPM 1750. See link for drawing and curve. Used as Regen Condensate Pump in DDE cooling tower.	33-43	Hold	1
PC-4304	Centrifugal Pump ss	Goulds	Goulds Centrifugal Pump 3196. Model 1x2-10 with impeller 9.5" Designed for 30 gpm @ 105 TDH size 1x2-10. Material ss316 wetted parts. Driven by motor 5 HP 5 RPM 1750 New head. Last used as Depressurization Condensate Pump for TP-4304 at DDE Lurgi tower	33-43	Hold	1
PC-5201	Centrifugal Pump ss	Goulds	Goulds Pump model 3196 designed for 210 gpm @ 70 TDH. Size 3x4-10. Material ss316 wetted parts. Driven by motor HP 10 RPM 1800 Last used as Thin Stillage Pump.	8-52	Hold	1
PC-9504	Centrifugal Pump ss	Goulds	Goulds Pump model 3196 designed for capacity 250 gpm @ 202 TDH. Size 2x3-10, impeller dia 7.125", ser num 729F506W3. Material wetted parts ss316. Driven by 40 HP motor 3560 rpm. Last used as Acid Wash Pump.	6-95	Hold	1
PC-9550A	Centrifugal Pump ss	Goulds	Goulds Pump model 3196 designed for Capacity 500 gpm @ 90 TDH. Size 3x4-13, impeller dia 9.625". Material ss316 with seal pot. Driven by 25 HP motor 1800 rpm. See link for drawing and pump curve. Last used as CIP drain pump #1.	6-95	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
PC-9550B	Centrifugal Pump ss	Goulds	Goulds Pump model 3196 designed for Capacity 500 gpm @ 90 TDH. Size 3x4-13, impeller dia 9.625". Material ss316 with seal pot. Driven by 25 HP motor 1800 rpm See link for drawing and pump curve. Last used as CIP drain pump #2	6-95	Hold	1
PC-7201B	Centrifugal Pump ss	Goulds	Goulds Pump Model 3196 designed for capacity 100 gpm @ 73 Head. Size 2x3-8, impeller 8.375". Wetted parts ss316. Ser num A774F031. Driven by 5 HP motor at 1800 rpm. Used as pump at cook tube.	6-72	Hold	1
PC-9107A	Centrifugal Pump ss	Flowserve	Flowserve centrifugal pump - deaerator water feed. Model MK3B2D Size 2K3x2-82RV, Impeller diameter 7.44" Designed for 305 gpm at 190 ft TDH (151,890 lbs/hr). S/N 11006-1980A 2nd pump 11006-1980B, DM 11-15-2006 Min Temp 100 deg, 275 psi, MDP-D4-CF8M. Driven by 25 HP motor 3560 rpm. See link for pump data. Last used as deaerator feed pumps CoGen.	17-12	Hold	1
PP-7104	Diaphragm Pump	Wilden	Wilden diaphragm rated at capacity 60 gpm @ 75 psig Air driven. Built 2006. 2 inch x 2 inch. Currently used as sump pump in Fermentation.	35-71	Hold	1
PP-7101	Diaphragm Sump Pump	Wilden	Wilden diaphragm currently used as sump pump in Fermentation. Rated at capacity 60 gpm @ 75 psig Air driven. Sn# 0020746049. Built 2006. 2 inch x 2 inch	7-32	Hold	1
PC-3002	Fire Pump	Cummins-Aurora	Fire Pump. Rated at 3500 gpm at 125 psig TDH. Cummins engine, Aurora split case pump, 572 gallon double wall diesel tank NFPA 20 with leak detection sensors. All skid mounted with interconnecting 12" piping and controls. Includes electric jockey pump & controller, Pentair model PVM4-130, 5HP. Self contained with all instrumentation. Cummins diesel engine Model OSM11, engine # 35243793. 400HP at 2100 rpm. Pump is Aurora split case pump Type 10-492-18, sn# 08-1754563, designed for 3500 gpm at 125 psig. Discharge piping 10 inch, Impeller dia 17.125". One stage, 1750 rpm. Includes diesel tank on skid as well. Diesel tank is horiz 4 ft dia x 6 ft long for approx 500 gallon capacity. Skid size is 121" w x 171" L x 103" high. Weight of entire system approx 16,500 pounds. See system drawing in links.	28-30	Hold	1
PR-4109	Gear Pump ss	Oberdorfer	Oberdorfer Chemsteel pump, design capacity 1 gpm @ 40 TDH HP 0.33 RPM Motor 0.5 HP 1750 Material 304 SS Model R10316CB-F53. Designed for highly corrosive liquids Last used as Fusel Oil Pump	41	Hold	1
PM-3602	Metering Mag Pump	Zenith	Zenith Mag Pump 1 capacity 0.1 gpm @ 77 TDH size C9000-1.2. Material 316SS. Connections 1/4" x 1/4" No seal - magnetically driven. Driven by motor HP 0.5 RPM 1800. 0.25" NPT Inline helical reducer ratio of 3:1 Model C-9000-1.2cc/rev, pump speed 30 to 583 rpm. Last used as AA Enzyme Pump No. 1.	6-36	Hold	1
PM-3603	Metering Mag Pump	Zenith	Zenith Mag Pump capacity 0.1 gpm @ 77 TDH size C9000-1.2. Material 304 SS. No seal - magnetically driven. Connections 1/4" x 1/4" Driven by motor HP 0.5 RPM 1800. Feeds Yeast Propagation - .25 NPTF Inline helical reducer ratio of 3:1 Model C-9000-1.2cc/rev, pump speed 30 to 583 rpm. Last used as AA Enzyme Pump No. 2.	6-36	Hold	1
PM-3605	Metering Mag Pump	Zenith	Zenith Mag Pump capacity 1 gpm @ 105 TDH size C9000-9.0. Material 304 SS. Connections 1/2" x 1/2". No seal - magnetically driven. Driven by motor HP 0.5 RPM 1800. Inline helical reducer ratio of 3:1 Model C-9000-9.0 cc/rev, pump speed 30 to 540 rpm .50 NPTF. Last used as GA Enzyme Pump.	6-36	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
PM-8512	Metering Pump H2SO4	Eaton	Eaton metering pump designed for capacity 15.3 gph @ 29 TDH Material PVC, metering pump model FNPT1/2-W-S-UL. Material PVC Acid pump - max ratings up to 150 psi and 111 gph. Driven by 1/2 HP motor 1725 rpm 110/230v 3/60	6-85	Hold	1
PR-5302	Positive Displacement Pump	Vican	Vican positive displacement pump (Viking) with gear and internal relief valve set at 70 psi. Model LL124, designed for capacity 70 gpm @ 82 psig. Pump runs at 350 rpm. Gear unit 5.08:1 ratio. Material 316 SS. Serial # 225202. Driven by 10 HP motor, 1760 rpm. Last used as Syrup Loadout Pump	8-53	Hold	1
PR-5301	Positive Displacement Pump ss	Vican	Vican (Viking) positive displacement pump with gear and internal relief valve set at 70 psi. Model KK124SS, designed for capacity 50 gpm @ 54 psig. Pump runs at 350 rpm, gear ration 5.06:1. Material 316 SS. Serial # 025201. Driven by 7.5 HP motor, 1750 rpm. Last used as Syrup Blending Pump	8-53	Hold	1
PV-4201	Vacuum Pump	Nash Elmo	Nash Elmo liquid ring vacuum pump designed for capacity 180 cfm @ 1.18 psia Material 316 SS. Driven by 40 HP 1170 rpm. Last used as Evaporator Vacuum Pump	33-42	Hold	1
PV-4301	Vacuum Pump	Nash Elmo	Nash Elmo liquid ring vacuum pump designed for capacity 36cfhr @ 1.72 psia Material 316 SS. Driven by 15 HP motor 1170 rpm. Last used as Regen. Vacuum Pump	33-43	Hold	1
PP-4001A	Vertical Bowl Pump	Cascade Pump Company	Cascade Pump vertical bowl pump - 1 stage. Model 12MFCA, ser nm 16909. Designed for capacity 3200 gpm @ 40 TDH. Size 12" pipe, Bowl depth from flange is 4'-10", Material CS. Impeller AA3-31. Driven by HP 40 RPM 1750. Last used as Regen Condenser Spray Pump.	34-40	Hold	1
PP-4001B	Vertical Bowl Pump	Cascade Pump Company	Cascade Pump vertical bowl pump - 1 stage Model 12MFCA, ser nm 16910. Designed for capacity 3200 gpm @ 40 TDH. Size 12" pipe, Bowl depth from flange is 4'-10", Material CS. Impeller AA#-31. Driven by HP 40 RPM 1750. Last used as Regen Condenser Spray Pump.	34-40	Hold	1
PP-4002A	Vertical Bowl Pump	Cascade	Cascade vertical bowl pump - 2 stage. Model 6MF-2 with impeller XA4-39. Impeller dia 7-3/4". Serial number 16912. Designed for capacity 800 gpm @ 40 TDH. Size 8" pipe, Bowl depth from flange is 4'-8". Driven by HP 15 RPM 1750. Used as Evap Condenser Spray Water on Lurgi tower DDE.	34-40	Hold	1
PP-4002B	Vertical Bowl Pump	Cascade	Cascade vertical bowl pump - 2 bowls. Model 6MF-2 with impeller XA4-39. Impeller dia 7-3/4". Serial number 16911. Designed for capacity 800 gpm @ 40 TDH. Size 8" pipe, Bowl depth from flange is 4'-8". Driven by HP 15 RPM 1750. Used as Evap Condenser Spray Water on Lurgi tower DDE.	34-40	Hold	1
PDP-18	Water Pump Skid ss	Flowserve	Flowserve centrifugal water pumps - 2 on a skid. Model D814 3x2x6F. Material ss 316. Each pump designed for 178 gpm at 139 ft TDH. Each pump driven by 20 HP motor 3600 rpm. US Water Pump (dual) skid with stand and controller. Pumps ss. There are 2 pumps on a single skid - sold as one unit. Last used as water softener Permeate pump skid.	27-92	Hold	2

**Silo**

2 Item(s)

Asset	Name	Manufacturer	Description	Location	Status	Qty
TS-9150	Silo & Slurry Tank	Imperial Industries	Integrated powder silo and liquid slurry tank underneath in same structure. Powder Silo size 12 feet diameter x 29 ft. straight side. Powder capacity 3400 cu ft. Max density 40 pcf. Has "live" cone bottom with vibrator feeding into volumetric feeder. Slurry tank below is 5,000 gallon capacity (12 ft dia x 8 ft tall) with top entering agitator and 2 slurry pumps below. Slurry pumps are Lime Slurry Pump (Qty 2) Hydracell S/N 199067 2nd 199068 Model D35XKCTCCECA Oil: 10W30 HYDA 4.5 Qts. Includes baghouse on top. OAH for silo + slurry tank system is 65 ft. - baghouse extends above that approx 10 ft. Last used as lime silo + slurry tank at CoGen. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. Approximate weight 45,000 pounds and shipping dimensions will be a wide/permit load approx 13 ft tall x 13 ft wide x 67 ft long. Baghouse will mostl likely have to travel separately. For a list of all components, enter PK9140 in the search box.	18-10	Hold	1
TS-1301	Silo Surge Bin	Imperial Industries	Silo surge bin, capacity 1500 Bu (1959 cf or 14,650 gallons, 1500 bu). Size 12' dia x 16' s/s with 45 degree cone x 24 ft OAH. Material CS. Atmospheric silo - max internal pressure 0.3 psi. Designed for corn with 45 pcf density, 0.5 hour surge capacity. See drawing in links. Used as surge bin for corn to both hammermills. Part of Hammermill Milling Package - see PK-1301. For a list of all components enter PK1301 in search box	5-13	Hold	1

## Systems & Packages

10 Item(s)

FH-8210	Flare Package - Ethanol Truck Loadout	John Zink	Flare package by John Zink Company. Flare includes Knock-out Pot capacity 70 gallons size 24" x 36" , Knockout Tank pump driven by 1.5 HP motor, flare stack 20" x 25', and flare blower Pennbarry DRM-DD-12 with a 1 HP 3500 rpm motor. Local controls. For drawing and data, see links. Used as Ethanol truck loadout flare.	12-82	Hold	1
PK-5430	Fluid Bed Cooling Pkg - Dryer System	Barr-Rosin	Barr-Rosin Flash Dryer Cooler Package. Includes fluid bed cooler, dust collector baghouse, blower, and ducting. Cooler designed for product rate from dryers at 29,701 lb/hr. at 10% moisture. Product temp 210F, dryer exhaust volume 18,000 AF. Based on 74 degree underbed temperature, the fluid bed cooler will achieve a 1-2% evaporative cooling. Material of DDGS based on 10 lb/cf. Barr-Rosin Flash Dryer Cooler Package. Includes fluid bed cooler, dust collector baghouse, blower, and ducting. Cooler designed for product rate from dryers at 29,701 lb/hr. at 10% moisture. Product temp 210F, dryer exhaust volume 18,000 AF. Based on 74 degree underbed temperature, the fluid bed cooler will achieve a 1-2% evaporative cooling. Material of DDGS based on 10 lb/cf. . Part of dryer package. This is the fluid bed cooler package. Includes fluid bed cooler and filter baghouse. For a complete list of these components, enter PK5430 in search box.	8-54	Hold	1
PK-9109	GenSet Package 4 MW (5000 KVA)	Murray Turbine	Gen-Set Package (Includes Murray Turbine, Ideal Generator, Lube system, and control panel). Output is 5000 KVA at 12.4 KV 60 Hz 3 phase. - Guaranteed at 4,012 KW. Steam turbine and generator skidded together, LO skid separate. Length of unit approx 26'-7" x Width of unit approx 10'-1". System integrated by Murray Turbine. See drawings in links. For a list of all components, enter "PK9109" into keyword search box. Used as CoGen.	17-18	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
PK-1301	Hammermill System Package	Bliss	Hammermill Milling system. This includes (2) Bliss 250 HP hammermills, steel building and structure, elevator leg feed, surge bin silo, screw conveyor at hammermill outlet, dust control filter baghouse, all in hammermill milling area - see assets MH-1301 and MH-1302 for hammermill details and photos. Part of hammermill milling package - for all components enter PK1301 in search box.	5-13	Hold	1
PK-9140	HRS&G & Coal Combustor System	Rentch & EPI	System designed to generate high pressure steam through a Heat Recovery Steam Generator (HRS&G) process. Includes dry storage for coal and limestone, an EPI coal combustor, Rentech HRS&G, economizer, FD and ID fans and stainless steel stack, fly ash handling systems including filter baghouses and silo. Combustor delivers heat with incoming flue gas of 273,700 #/hr at 1700F. And the HRS&G delivers 130,000 #/hr superheated steam at 650 psig. Steam can be used for process - in this case, it produced super heated steam for a 4 MW turbine Gen Set (sold separately - see asset PK-9109). The entire system is available, however, we can sell each piece individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box.	16	Hold	1
PK-8219	Loading Station - Top, Dual Ethanol		Ethanol Liquid Loadout system, TWO station. Designed for 1200 gpm. Has 4 inch load out line with vent, two station loadout with cantilevered platforms & safeties, galvanized stairs, two OPW 4" swivels and loading arms, slide out platform, Ethanol Rail Loadout (2) station. Filter - Krystil Klear Filtration 150 psig @ 300F, (2) Meters, [The flare system is asset FH-8201 valued separately] This is a complete system. Built 2009 but not used - Like NEW. Currently set up on rail but can be used for rail or truck loadout. See link for GA drawing and schematic detailed information	13-82	Hold	1
PK-8420	Loading System Package - DDGS, solids	DYNATEK & SLY	Package system: Mass Loadout system - last used for DDGS Rail or Truck Loadout Facilities. Includes 75 ft drag conveyor CON-013 delivering DDGS at 15,000 cfm (240 ton/hr), Dynatek articulated loading arm, two 30' drag conveyors feeding the spout, vertical pedestal structure, and pendant control - includes SLY model XP-12 loading spout. Includes control house inside (asset BL-8422) but not main building. We can include loadout building (see BL-8421) - priced separately. Load out for two rail or trucks spots side by side. We can mix and match components to align with your system needs. For a list of all components in this loadout system, enter "PK8420" into the keyword search box.	24-84	Hold	1
PK-5410	Rotary Steam Tube Dryer System #1	Davenport	Complete rotary steam tube dryer system #1. Drum size is 11.75 ft dia x 70 ft long. Model RSTD. Ser num 33007. Designed for evap capacity 29,397 #/hr. Material 304L. Driven by 100HP motor. For dryer details and photos see Asset DR-5410. All ancillary equipment for the steam tube rotary dryer system. Includes single shaft paddle mixer, ss drag conveyors, screw conveyors, cyclones and rotary valves, main fan, ss stack. For a list of all these components, enter PK5410 in search box.	8-54	Hold	1
PK-5420	Rotary Steam Tube Dryer System #2	Davenport Barr-Rosin	Davenport Rotary Steam Tube Dryer No. 2 Size 11.75 ft dia x 70 ft. Model RSTD. Designed for evap capacity 29,397 #/hr. Material 304L. Driven by 75HP motor,. For dryer details and photos see Asset DR-5420. All ancillary equipment for the #2 steam tube rotary dryer system. Includes pre-mixer, double shaft paddle mixer, ss drag conveyors, screw conveyors, cyclones and rotary valves, main fan, For a list of all these components, enter PK5420 in search box.	8-54	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
PK-3501	Scrubber System Package		Package: CO2 and Process Scrubber System and vent. Includes columns, pumps, blowers. Manufacturer's Performance guarantees: CO2 scrubber - will remove more than 99.9% of alcohols, greater than 30% of the acetaldehyde, and all the formaldehyde. For Process Scrubber, will remove more than 99.9% of alcohols and greater than 45% of the acetaldehyde. For combined scrubbers for the combined effluent, the exhausting VOC from the two will be less than 2.5 lb/hr. Each part of this package is listed separately as well. Enter keyword "PK3501" in search box for a list of all components.	2-35	Hold	1

### Tank, Poly

1 Item(s)

TS-8510	Sulphuric Acid Tank		Sulphuric Acid Tank - 2500 gal. Plastic tank-flat bottom. Approx. 7 ft diameter x 10 ft tall for capacity of 2500 gallons.	6-85	Hold	1
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### Tanks & Pressure Vessels/Carbon Steel

11 Item(s)

TF-8201	200 Proof Storage Vertical Tank cs	Fisher Tank	Vertical carbon steel tank mfg by Fisher Tank, API 650 tank. 110,000 gallons Size 24 ft dia x 30 ft. Weight approx 33,761 pounds. 2007 CS. Last used as 200 Proof Storage Tank. Tank too large to move without cutting up and reassembling. Used as 200 proof storage tank	11-82	Hold	1
TP-9102	Condensate Flash Tank	GMW	Vertical condensate flash tank, carbon steel. Size 2'-6" dia x 6' s/s. On 4' legs for 11' OAH. Mfg by GMW ser 40046A, ASME MAWP FV/175 psi at 376F. Capacity approx 200 gallons. This tank was built in 2006 – used in 2008, then drained and idled since then. Essentially like new condition – no steam wear.	8-91	Hold	1
TP-9101	Condensate Tank	GMW	Horizontal condensate tank mfg by GMW. Capacity 1,868 gallons @ 10 psig size 5'-6" dia x 9'-0" long. Material CS Not Vented, requires safety relief Horizontal tank, elevated 7 feet for improved NPSH. Mfg. by GMW ser num 4006-B ASME NB# MAWPFV/150 psi at 376F. Tank on saddles, insulated. See link for drawing and data. Last used as Main Steam Condensate Tank	6-91	Hold	1
TS-8206	Corrosion Inhibitor Vertical Tank	Kennedy	Kennedy API 650 tank - capacity 2,050 gallons size 6' D x 10' H. Side entering manhole. Material CS. Sloped bottom, insulated, atmospheric tank. See link for tank drawing. Last used as Corrosion Inhibitor (Additive) Tank	10-82	Hold	1
TF-8203	Denatured Ethanol Vertical Tank cs	Fisher Tank	Vertical tank carbon steel API 650 mfg by Fisher Tank 650,000 gallons. 52 ft x 44 ft. CS. Weight calculated at 121,916 pounds. Tank too big to move - will have to be cut and re-assembled. Last used as Denatured Ethanol Tank.	11-82	Hold	1
DS-9142	Dry Scrubber	McGill Airclean	Dry Scrubber used in CoGen area. Size 20' dia x 80'-8" tall for capacity approx 190,000 gallons. Has 60 degree bottom discharge hopper, vibrators, and heaters. Too big to move. Weight approx 60,288 pounds carbon steel. Material only - no removal labor. See link for drawing. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box	18-5	Hold	1
TF-8205	Ethanol Storage tank	Fisher Tank	Vertical tank carbon steel API650 mfg by Fisher Tank 90,000 gallons. 24 ft x 31 ft. CS. Calculated weight 34,565 pounds. Tank too large to move without cutting up and re-assembling. Last used as Day Tank.	11-82	Hold	1



Asset	Name	Manufacturer	Description	Location	Status	Qty
TS-9301	Fire Water Tank	Columbian	Vertical Carbon Steel Fire Water Tank mfg by Columbian Tec Tank. Capacity 525,000 gal ~ 54 feet diameter by 30 ft high, vertical ladder. Tank type FMS. Weight approx 106,000 pounds. Tank too large to move without cutting up and reassembling. Not available until Mid 2022.	28-93	Hold	1
TF-8202	Gasoline Denaturant Vertical Tank cs	Fisher Tank	Vertical carbon steel tank API 650 mfg by Fisher Tank. 40,000 gallons. 16 ft x 30 ft. CS. Weight cs about 20,364 pounds. Tank too big to move - will require cutting and re-assembly. Last used as Gasoline Denaturant Storage Tank	10-82	Hold	1
TB-31210	Pressure Tank, Boiler Blowdown	Protherm	Vertical carbon steel tank. Size is 72" OD x 79" s/s for capacity approx 1400 gallons. On legs - OAH = 152 inches. Has stainless steel sparge tube. ASME MAWP 50 psig at 450F. Last used as a boiler blow off tank. (Blowdown Tank) #41317 CoGen	16-16	Hold	1
TS-9143	Silo Fly Ash	Columbian TecTank	Vertical carbon steel silo and truck loading station, last used for fly ash at CoGen. Bolted tank built by Columbian TecTank in 2006. Used less than 1 year. Has been cleaned and idled since 2009. Has 30 degree hopper discharge. Approx Size 21'-6" dia x 70 ft tall - see drawing. Silo inside has 25' straight wall with 30 degree cone. Approximate capacity 9,000 cu ft = 68,000 gallons. Carbon steel weight approx 58,000 pounds. Includes IAC baghouse on top plus Sly XP-12 loading spout. See BF-9147 for baghouse and SL-9144 for truck loadout funnel. Price includes unbolting, removal, and loading. The entire system will be delivered in pieces.	18-20	Hold	1

### Tanks & Pressure Vessels/Stainless

35 Item(s)

TF-3401	Beer Well Vertical Tank ss	EnerFab	EnerFab Beer Well. Vertical ss tank 50 ft dia x 50 ft. calculated to be 734,398 gallons. Material is 304SS/CS Supports. Total weight ss304 = approx 152,000 pounds. Includes ladders, gratings, platforms, handrails. Does not include agitator (it is gone). But we can sell one of Fermenter agitators.	7-34	Hold	1
TP-4107	Condensate Tank ss	Thermal Kinetics	Condensate drum, horizontal on saddles, insulated. Thermal Kinetics Design: Mfg by Bota ser num TP-4107, ASME NB# 111, MAWP 75psig/FV at 400F. Material 304L ss. Size 2 ft dia x 4 ft s/s. Capacity about 100 gallons. Design 30sec retention time, Used as 200 Proof Cond. Drum	33-41	Hold	1
TP-4204	Condensate Tank ss	Bota Welding	Condensate tank, horizontal on saddles. Size 24" OD x 44" s/s for capacity approx 85 gallons. Material ss304L. ASME Nat'l Bd# 118 MAWP 25psig/FV at @150F. Use link for drawing and data. Last used as Thermal Kinetics ET-4204 Condensate Drum	33-42	Hold	1
TP-4205	Condensate Tank ss	Bota Welding	Horizontal condensate drum on saddles. Insulated. Size 42" dia x 68" s/s for capacity of approx 400 gallons. Material ss304L with cs supports. Mfg by Bota Welding ser num TP-4205 ASME NB# 116 MAWP 25psig/FV at 200F. See link to drawing and U-1A. Used as Thermal Kinetics 1st Effect Evap Condensate Drum in DDE	33-42	Hold	1
TP-4303	Condensate Tank ss	Bota Welding.	Horizontal condensate tank on saddles. Size 42" dia x 68" s/s for capacity approx 400 gallons. Material ss304LMfg by Bota Welding ser num TP-4303 ASME NB# 120 MAWP FV/25 psi at 220F. Material ss304L. 30sec retention time Used as Regen condensate tank at Lurgi tower in DDE.	33-43	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
TP-4304	Condensate Tank ss	Bota Welding	Condensate tank, horizontal on saddles. Size 42" OD x 68" s/s for capacity of 400 gallons. Material ss 304L. Insulated. ASME Nat'l Bd# 121 MAWP 25 psi/FV at 220F. Last used as De-Pressurize. Cond. Tank 30sec retention time. At Lurgi tower DDE	33-43	Hold	1
TF-2101	Cook Water Vertical Tank ss	Enerfab	Enerfab Cook Water Tank. 25 ft dia x 40 ft. Capacity approx 142,365 gallons. Material ss304 tank/cs supports. Insulated. Weight 36,000 pounds. No agitator. Includes vertical ladder and platforms. See drawing in Links.	32-21	Hold	1
TF-3201A	Fermenter Vertical Tank ss	Enerfab	EnerFab Fermenter. Vertical ss tank 48 ft x 50 ft. 686,000 gallons. 304SS/CS Supports. Total weight ss304 = 148,000 pounds. Price includes agitator. We can also sell agitator separately - see asset AT-3201A. We have pricing to cut tank into movable pieces - ask us.	7-32	Hold	1
TF-3201B	Fermenter Vertical Tank ss	EnerFab	EnerFab Fermenter. Vertical ss tank 48 ft dia x 50 ft. 686,000 gallons. 304SS/CS Supports. Total weight ss304 = 148,000 pounds. Price includes agitator. We can also sell agitator separately - see asset AT-3201B	7-32	Hold	1
TF-3201C	Fermenter Vertical Tank ss	EnerFab	EnerFab Fermenter. Vertical ss tank 48 ft x 50 ft. 686,000 gallons. 304SS/CS Supports. Total weight ss304 = 148,000 pounds. Price includes agitator. We can also sell agitator separately - see asset AT-3201C	7-32	Hold	1
TP-4207	Flash Tank ss	Bota Welding	Flash Tank size 4'-0" dia x 142" s/s x 23.5 OAH (includes 10 ft cs skirt). Material ss304L. Capacity approx 1112 gallons. Mfg by Bota Welding for Thermal Kinetics ser num TP-4207, ASME NB# 117 MAWP FV/25 psi at 200F. Cone bottom/dish top. See link for drawing. Used as Whole stillage flash tank in DDE	33-42	Hold	1
TP-4105	Flash Tank ss	Thermal Kinetics	Flash tank, vertical. Material ss304L with cs supports. Size 48" dia x 118" s/s with a 96" cs skirt. OAH = 20 ft. Capacity approx 1118 gallons. Insulated. Mfg by Bota Welding ser num TP-4105, ASME NB# 109, MAWP FV/50psig at 250F. Cone bottom, dish top. See link for drawing and U-1 form. Used as Thermal Kinetics CO2 Flash Vessel	33-41	Hold	1
TP-4110	Flash Tank ss	Bota Welding	Vertical stainless steel tank, used as flash tank. Material ss304L with cs supports. Size 24" OD x 60" s/s. On 64" legs for 138" OAH. Approx capacity 100 gallons. Mfg by Bota Welding ser num TP-4110, ASME NB# 113, MAWP Design: 75psig at 250F. See link for drawing and U-1A. Used as Thermal Kinetics TW-4102 Flash Tank	33-41	Hold	1
TP-4112	Flash Tank ss	Thermal Kinetics	Vertical flash tank stainless steel 304L, insulated, on cs skirt. Material ss304L. Dish top/funnel bottom. Size 54" OD x 140" s/s with 96" skirt. OAH 261". Capacity approx 1300 gallons. Mfg by Bota Welding for Thermal Kinetics, ser num TP-4112, ASME NB# 114, MAWP FV/25 psi at 230F. Cone bottom/dish top. See link for drawing and U-1. Used as Thermal Kinetics Mash Flash Cooler #1	33-41	Hold	1
TP-4113	Flash Tank ss	Bota Welding	Flash Tank, vertical stainless. Size 54" OD x 12' s/s x 21.75' OAH. (includes 95" cs skirt). Capacity approx 1200 gallons. Insulated, Material ss304L. Cone bottom, dish top. Mfg by Bota Welding ser num TP-4113, ASME NB# 115 MAWP FV/25 psi at 230F. See link for drawing and U-1. Used as Thermal Kinetics Mash Flash Cooler #2	33-41	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
TP-4108	Horizontal Tank ss	Bota Welding	Horizontal stainless steel tank, on saddles. Material ss304L with cs supports Size 71" dia x 80" s/s for approx capacity 1300 gallons. Mfg by Bota Welding ser num TP-4108, ASME NB# 112, MAWP Design: FV/75psig at 250F. See link for drawing and U-1 form. Used as Thermal Kinetics Fusel Oil Decanter	33-41	Hold	1
TP-4301	Horizontal Tank ss	Alps Welding	Horizontal stainless steel tank, on saddles, insulated. Size 6'-0" Dia x 24' for capacity approx 5,000 gallons. Material ss304 with cs supports. MAWP FV/75 psi at 450F. Used as Thermal Kinetics Accumulator #1 in DDE	33-43	Hold	1
TP-4302	Horizontal Tank ss	Alps Welding	Horizontal stainless steel tank, on saddles, insulated. Size 6'-0" Dia x 24' for capacity approx 5,000 gallons. Material ss304 with cs supports. MAWP FV/75 psi at 450F. Used as Thermal Kinetics Accumulator #1 in DDE2	33-43	Hold	1
TS-3606	Mix Tank ss w/agitator	Kennedy Tanks	Vertical stainless steel tank mfg by Kennedy Tanks Capacity 250 gallons size 3'-4" x 4'-0" Material 304 SS/CS supports. Flat top, sloped bottom. Agitator is Lightnin 3/4 HP top entering mixer Model EV5P75. See link for tank drawing. Used as Enzyme Blend Tank.	6-36	Hold	1
TF-7201	Process Condensate Vertical Tank ss	EnerFab	Vertical ss tank - size 25 ft dia x 40 ft. For approx 142,365 gallons. Insulted. Weight 36,000 pounds ss304. Includes ladders/platforms. We have drawing - see link. Used as EnerFab Process Condensate Tank.	6-72	Hold	1
TP-4103	Separator ss	Bota Welding	Separator for reboiler mfg for Thermal Kinetics by Bota Welding. Material ss304L with cs skirt. Insulated. Mfg by Bota ser num TP-4103, ASME NB# 107, MAWP Design: 75psig/FV at 250F. Size is 5 ft dia x 10 ft s/s x 14 ft OAH. Plus 10 ft cs skirt = 24.8' total height. Capacity approx 1500 gallons. Internal has 8" mist eliminator. See link for drawing. Used for Separator for ET-4103 reboiler	33-41	Hold	1
TP-4104	Separator ss	Bota Welding	Separator mfg by Bota Welding for Thermal Kinetics . Material ss304L with cs supports. Mfg by Bota Welding ser num TP-4104, ASME NB# 108, MAWP 75psig/FV at 250F. Size 3'-6" x 9'-6" s/s ' with 11.7 ft cs skirt and 8" mist eliminator internal. Total height 22.8' Capacity approx 700 gallons. See link for drawing and U-1 form. Used as Separator for ET-4104 condenser	33-41	Hold	1
TP-4201	Separator ss	JD Cousins	Separator stainless steel vertical, insulated. Material ss304L with cs supports. Dish top/dish bottom. Size 10'-6" OD x 12' s/s on 11'-2" cs skirt. OAH = 26.5 ft. Capacity approx 7500 gallons. Mfg by JD Cousins ser number N-106 and 1206-9, ASME NB# 8007, MAWP Design: FV/25 psig at 200F. See link for drawing and U-1. Used as Thermal Kinetics First Effect Separator	33-42	Hold	1
TP-4202	Separator ss	Central Fabricators	Separator vertical pressure tank, built by Central Fabricators, ser num N-105. Material ss304L with cs supports. Size 12 ft dia x 12 ft s/s on 11'-2" cs skirt. Capacity approx 10,000 gallons. ASME NB 2226 MAWP 25 psi/FV at 200F. See link for drawing and U-1 . Used as Thermal Kinetics Second Effect Separator.	33-42	Hold	1
TF-5301	Syrup Vertical Tank ss	EnerFab	EnerFab Syrup Tank. 20 ft dia x 25 ft. 57,905 gallons. 304SS/CS Supports. Insulated. Weight 25,000 pounds ss304. Price includes agitator, ladders, platforms. We can sell the Agitator from this tank separately - see Asset AT-5301.	8-53	Hold	1
TF-5201	Thin Stillage Vertical Tank ss	EnerFab	EnerFab Thin Stillage Tank. 25 ft dia x 40 ft. 142,365 gallons. 304SS/CS Supports. Insulated. Weight 36,000 ss 304. No agitator. Includes ladder and platforms	8-52	Hold	1

Asset	Name	Manufacturer	Description	Location	Status	Qty
TS-5102	Vertical Tank ss	Kennedy Tanks	Vertical Tank on legs, material ss304. Capacity 1500 gallons, Size 6'-0" x 8'-0" s/s on cs legs Atmospheric tank Designed for 25 W.C. internal/10 " WC external at 200F. Used as Centrate Tank in decanting	35-51	Hold	1
TS-3601	Vertical Tank ss	Kennedy Tank	Vertical stainless steel tank. Kennedy Tank capacity 6,000 gallons size 7'-3" dia x 20'-0" Material 304 SS/CS supports. On legs, slight cone bottom, cone top, atmospheric tank. See link for tank drawing. Used as Alpha Amylase Tank	6-36	Hold	1
TS-3604	Vertical Tank ss	Kennedy Tank	Vertical stainless steel tank. Kennedy Tank capacity 6,000 gallons size 7'-3" dia x 20'-0" Material 304 SS/CS supports. On legs, slight cone bottom, cone top, atmospheric tank. See link for tank drawing. Used as Gluco Amylase Tank	6-36	Hold	1
TS-5101	Vertical Tank ss	Kennedy Tanks	Vertical stainless steel tank Mfg by Kennedy Tanks capacity approx 40,300 gallons size 13'-6" D x 38' H Material ss304. Tank is insulated with vertical ladder. Includes top entering Lightnin Agitator Model 74C5 driven by 5 HP motor 1200 rpm. Material 304 SS Final speed is 38 rpm Impeller diameter is 71 inches. Has 2 set of 3-blade propellers and a bottom steady bearing. Shaft size 2.5 inches. Used as Whole Stillage Tank	8-51	Hold	1
TS-8520	Vertical Tank ss	Kennedy Tanks	Vertical stainless steel tank mfg by Kennedy Tanks. Approx capacity 14,000 gallons. size 12'-0" x 17'-0" Material ss304 Insulated, sloped bottom, atmospheric tank. Has 24" side and 24" top manway. See link for drawing. Used as 50% Caustic Storage Tank	6-85	Hold	1
TS-9501	Vertical Tank ss	Kennedy Tanks	Vertical stainless steel tank mfg by Kennedy Tanks. Material ss304. Atmospheric tank, sloped bottom, insulated. Size 13'-5" dia x 17'-0" for capacity approx 17,800 gallons. Manway side entering 24". Weight of ss in tank is 16,000 pounds. See link for tank drawing. Was storing 5% Caustic. Used as CIP Tank	6-95	Hold	1
TS-9503	Vertical Tank ss	Kennedy Tanks	Vertical stainless steel tank, sloped bottom, cone top, atmospheric, insulated. Mfg by Kennedy Tanks capacity 13,500 gallons size 12'-0" dia x 16'-0" Material ss304. Side baffle. Physical weight 12,000 pounds. Includes Lightnin agitator 503C2, one set of 3-blade, type A510E sweep diameter 51 inches, shaft dia 2.5 inches. Material ss304. Driven by 2 HP motor 1800 rpm with right angle gear unit for final 54 rpm. See link for drawing. Used as Waste CIP Tank	6-95	Hold	1
TS-9504	Vertical Tank ss	Kennedy Tanks	Vertical stainless steel tank, on legs. Mfg by Kennedy Tanks. Approx capacity 2,200 gallons, size 6'-3" x 10'-0" s/s with 5 ft cs legs for approx 18' OAH. Material ss304, atmospheric tank. Has 15 degree cone top, 20 degree cone bottom with 6" outlet, side entering 24" manhole, level transmitter. See link for drawing. Used as Sulfamic acid Wash Tank	6-95	Hold	1
TK-31000	Vertical Tank ss Boiler feedwater	Creco	Vertical stainless steel 304 tank, flat bottom, flat top. Size 14 ft dia x 27 ft - 8" tall for capacity of 30,000 gallons, design temp 235 degrees F. Insulated 2" fiberglass. Atmospheric tank. See link for tank drawing. Includes vertical ladder and railing. Used as Boiler Water Make-up Tank in CoGen. The entire system is available, however, we will sell equipment individually. See Simplified Flow Chart in Links for a pictorial of each piece in this system. For a list of all components, enter PK9140 in the search box. Approx shipping dimensions 14'-6" wide x 14'-4" tall x 32 ft long, weight approx 20,000 pounds	16-4	Hold	1

Terms: All equipment is sold As Is Where Is, Subject to prior sale and availability. The equipment could be withdrawn from the market at any time with no prior notice. All quotes are in US Dollars unless specifically noted otherwise. Quotes are good for 30 days. Description of the equipment - especially those relating to capacity, size, or condition - are stated as clearly as possible for information to the buyer or observer. The descriptions and representations cannot be taken as accurate. The buyer has the sole responsibility to determine size, capacity, capability, suitability, condition, or any other attribute pertaining to the piece of equipment represented or purchased. The assets are sold "As Is", "Where Is" and "with all faults" and except as explicitly stated in the Bill of Sale. All warranties, including, without limitation, the warranties of merchantability, quality, and fitness for a particular purpose are hereby expressly excluded. Seller makes no representations or warranties as to design, condition, capacity, performance, or any other aspect of the asset.