

stock #	Status	Location	Category	Sub Category	Capacity	UOM	MOC	Description
7821-0	Stock	Henderson, NV	EVAPORATORS	Crystallizer	14000	TPY	Titanium	14,000 TPY Sodium Chlorate Crystallization System, Mfg. by Swenson / Astro Metallurgical, single effect draft tube baffle type. Approx. 8' x 20 straight side with 4' cone top and 6' cone bottom. Rated FV @ 100°F. Unit has bottom drive with 15 HP Lightnin mixer with titanium grade 2 shaft and impeller. System includes: Titanium Plate Exchanger (Plant #30E-1 Crystallizer Heat Exchanger); Horizontal shell and tube Graham condensor, shell rated 20psi/FV @ 250°F, tubes rated 75 psi @ 250°F, Serial#66714-1, NB #1569, Built 1988; Nash Vacuum Pump System; Other Pumps- (3OP27 A/B, 3OP26A/B, 3OP15)
7821-1	Stock	Henderson, NV	SCRUBBERS	Scrubbers	24	" Dia	Titanium	24" diameter x 8' high Cosmos Material Corporation Titanium Grade 2 Vertical Vent Scrubber. Pneumatically tested at 5psi. Unit is complete with Koch Engineering Packing. Serial #9954. Built 2000.
7821-2	Stock	Henderson, NV	TANKS	High Alloy	10,000	Gal	Titanium	10,000 Gallon Vertical Titanium (Grade 2 B265) Storage Tank. Flat top and bottom. Approx. 12' diameter x 13' high. Year Built 1988. Previous Use: Sodium Chlorate
7821-3	Stock	Henderson, NV	CENTRIFUGES	Pusher Type	13.5	Dia (in)	Titanium	13.5" Diameter Baker Perkins Titanium Single Stage Pusher Centrifuge, type Ter Meer. Max operating speed 1500 RPM, complete with hydraulic drive system. Machine # 50718, Order # M-81624. Rebuilt 1992 (by Baker Perkins).
7821-4	Stock	Henderson, NV	DRYERS	Fluid Bed	0			Sulzer Chemtech Fluid Bed Dryer, Type FTF 60/500, material of construction 316L Stainless Steel. Design pressure of 0.7 psi @ 600 Deg. F. This unit is part of a complete drying system that includes a 2 stage wet scrubber, main heat source: electric and steam, 3 zone screw conveyor, feeder, cyclone, blowers, interconnecting piping, etc. Previous Use: Sodium Chlorate. Year Built 1994, Serial #035-1810-4813. Est. weight- 1,600 lbs.
7821-5	Stock	Henderson, NV	FILTERS	Plate & Frame	100	Sq. Ft	polypro	100 Sq. Ft. Perrin Polypropylene Plates, Plate & Frame Filter Press. 17 plates, 24" (630 MM), polypropylene CGR (2). Cake thickness- 11/4", 5 cubic feet cake capacity. Model #100-24. With manual hydraulic closure. Unit can accommodate 20 Chamber or approx 127 Sq. Ft. and 6 cu. ft. cake capacity. Year Built 1988. Serial #15565. Estimated weight- 3,200#. Previous Use: Sulfate Filter.
7821-6	Stock	Henderson, NV	FILTERS	Brine	150	Sq. Ft	Titanium	150 Sq. Ft. US Filter Brine Filter. Model # 44VJ-36-150F DCD, Type Verti-Jet with swing bolt door design, 44" diameter tank carbon steel lined with rubber (3/16" thick Butyl Rubber). There are 10 titanium leaver with 4" spacing, unit is rated for 75 psi @ 180F, complete with sluicing device. Serial # 7296. NB # 1884. Year Built 1988. Estimated weight- 1900 lbs.
7821-7	Stock	Henderson, NV	FILTERS	Rotary Vacuum	30	Sq. Ft	316L	30 Sq. Ft. Komline Sanderson 316 Stainless Steel (Contact Parts) Rotary Vacuum Filter. Left hand design and scraper discharge. Unit is 3' diameter x 3' face, max submergence 37.5%. Complete with variable speed drive and vacuum pump system. Variable speed 1/2 HP, speed 65 to 6.56 RPM. Serial # KDF-1494. Job # 1-1978. Built 1978. Previous Use: Mud Filter.
7821-8	Stock	Henderson, NV	SCRUBBERS	Scrubbers	0		Titanium	Complete Hydrogen Scrubber System for a 14,000 TPY Sodium Chlorate Plant. Consisting of 1st and 2nd stage hydrogen scrubbers, circulating pumps, plate heat exchanger, Nash vacuum pump, piping and instrumentation. 1st Stage Info: Titanium (SB-265 Gr. 2), mfg. by Ellett Ltd. Ind., rated for 8 psi @ 95 F, Serial # C93465090. Approx. 32" ID x 18' H (4-section: packing, spary, distributing try and demister section). 2nd Stage Info: FRP material of construction, FRP-Hetron 980, mfg. by Norcore Plastics, max Specific gravity 1.0, max pressure 20 psi @ 104F, Built 1988. Unit requires a H-7 Model Hydrogen compressor (not included), Plate Exchanger- APV Crepaco, Titanium, Model # SR6-GLM-T, Serial #76646, NB# 2667, rated for 100 psi @ 200 F. Built 1988. Also includes (2) Durco tower feed pumps.

7821-9	Stock	Henderson, NV	HEAT EXCHANGERS	Plate- High Alloy	0	Sq. Ft	Titanium	TBD Sq. Ft. APV Crepaco Titanium Plate Heat Exchanger. Rated for 150 psi @ 300 F or -20 F @ 150 psi. Model #SR6GLOT. Serial # 76720. National Board #2756. Built 1988.
7821-10	Stock	Henderson, NV	HEAT EXCHANGERS	Plate- High Alloy	300	Sq. Ft	Titanium	300 Sq. Ft Tranter Inc (Texas Division) Titanium Plate Heat Exchanger. Rated 100 psi @ 200 F. Model # UX-296-HP-75, Serial # SC 3106. Built 1989. Estimated weight- 1513 lbs.
7821-11	Stock	Henderson, NV	TANKS	Stainless Steel	20,000	Gal	Stainless Steel	20,000 Gallon 316L SS Vertical Mix Tank. Open top, flat bottom. Unit is complete with baffles (4) and 3 blade pitched impeller agitator driven by 7.5-10 HP Chemineer bridge mounted agitator. Dimensions: 13'6" diameter x 18' high. 1/4" thick. Year built 1987.
7821-12	Stock	Henderson, NV	TANKS	Stainless Steel	20,000	Gal	316L	20,000 Gallon 316L SS Vertical Mix Tank. Open top, flat bottom. Unit is complete with baffles (4) and 3 blade pitched impeller agitator driven by 7.5-10 HP Chemineer bridge mounted agitator. Dimensions: 13'6" diameter x 18' high. 1/4" thick. Year built 1987.
7821-13	Stock	Henderson, NV	CALCINER	Calciner	48	" Dia		48" (4') dia. x 40' long Rotary Calciner with Hastelloy C-276 cylinder 0.25" thick. Mfr: Allis-Chalmers, 1987, S/N: 87-6312. Cylinder, trunions, thrust rolls and bearings replaced 1994. Natural Gas direct fired, 1200 deg F max temp. Manuals and documents on file.
7821-14	Stock	Henderson, NV	DRYERS	ROTARY	7	" Dia		Approx. 7' diameter x 36' long horizontal 316 Stainless Steel Standard Steel Corp rotary dryer. With S/S lifters. 25 HP Motor coupled to Dodge maximum gear reducer and V-belt.
7821-15	Stock	Henderson, NV	REACTORS	Glass Lined	1000	Gal	Glass Lined	1000 gallon Pfaudler glass lined (Type 5015) reactor. Rated 100 psi/FV @ 450 F internal; rated 90 @ 450 F on jacket. Serial #R185-0098. National Board # 43548. Year Built 1984.
7821-16	Stock	Henderson, NV	REACTORS	Glass Lined (Body Only)	1000	Gal		Reglassed and Unused 1000 Gallon Pfaudler Glass Lined Reactor Body. Glass Type 5015. Rated 100 psi/FV @ 450 F internal; rated 90 @ 350 on jacket. Serial # R689-8278. National Board # 22709 (Repaired). Reglassed 1989.
7821-17	Stock	Henderson, NV	FILTERS	Plate & Frame	0	Sq. Ft		500 Sq. Ft. Durion Polypropylene Filter Press, 32" x 32" 4-Eye center feed with 41 plates 2 1/4" thick. Unit is complete with control panel, plate shifter and hydraulic closure. Unit is mounted on steel structure.
7821-18	Stock	Henderson, NV	TANKS	Fiberglass	12,000	Gal	FRP	12,000 Gallon Justin Tanks Inc. FRP Vertical Storage Tank. Approx. 12' diameter x 14'6" high, flat bottom and dome top.
7821-19	Stock	Henderson, NV	SILOS	Carbon Steel	3200	Cu. Ft.	Carbon Steel	3,200 Cubic Feet Carbon Steel Salt Silo. Approx. 9' diameter x 50' high with 10' skirt. Complete with salt elevator, slat blower and baghouse. Year Built 1988.
7821-20	Stock	Henderson, NV	TANKS	Fiberglass	15,000	Gal	FRP	15,000 gal vertical Tankinetics FRP storage tank. 12'6" x 17' H, flat bottom & top. Serial # 6818-02. Year built 1988. Estimated weight 3,275 lbs.
7821-21	Stock	Henderson, NV	TANKS	Fiberglass	15,000	Gal	FRP	15,000 gal vertical Tankinetics FRP storage tank. 12'6" x 17' H, flat bottom & top. Year built 1988. Estimated weight 3,275 lbs.

7821-22	Stock	Henderson, NV	TANKS	Fiberglass	3000	Gal	FRP	3000 gallon vertical Ershigs, Inc. FRP storage tank. ATMOS & 200 degree F, spec gravity 1.0, structure and liner resin: Hetron 980. Approximate dimensions 7'0" x 9'9" H. Serial# D-871623438. Year built 1988. Estimated weight 1,000
7821-23	Stock	Henderson, NV	TANKS	Fiberglass	20,000	Gal	FRP	20,000 gallon Tankinetics FRP storage tank. Flat bottom and dome top. Material hetron 980. Domensions 14'0" x 16'H. Year buit 1989
7821-24	Stock	Henderson, NV	TANKS	Fiberglass	6000	Gal	FRP	6000 gallon Vertical Tankinetics FRP storage tank. Flat bottom/dome top. Material hetron 980. Approximate dimensions 9'0" x 13'0" H. Serial # 6818-04. Year built 1988. Estimated weight 1,675 lbs.
7821-25	Stock	Henderson, NV	TANKS	Fiberglass	6000	Gal	FRP	6000 gallon Vertical Tankinetics FRP storage tank. Flat bottom/dome top. Material hetron 980. Approximate dimensions 9'0" x 13'0" H. Serial # 6818-041. Year built 1988. Estimated weight 1,675 lbs.
7821-26	Stock	Henderson, NV	TANKS	Fiberglass	12000	Gal	FRP	12,000 gallon vertical Diamond Fiberglass FRP storage tank. Material Heron 980. Flat bottom/dome top. Approximate dimensions 9'0" x 25'0 H. Serial # 3455. Year built 1993. Estimated weight 3500
7821-27	Stock	Henderson, NV	TANKS	Fiberglass	12000	Gal	FRP	12,000 gallon vertical Diamond Fiberglass FRP storage tank. Material Heron 980. Flat bottom/dome top. Approximate dimensions 9'0" x 25'0 H. Serial # 3456. Year built 1993. Estimated weight 3500
7821-28	Stock	Henderson, NV	ELECTRICAL	Rectifiers				Toshiba Rectifier-460 V, three phase, 60 hz transformer with 250 A DC output at up to 80 volts. 9948KVA, type form FCTDWR, Class FOW, Serial no. 87025005, 13,899V AC winding, 85.5 DC winding, with connecting buss bar, 20,000kg. See drawing P3957019 for info on the Rectifier, as well as attachment Toshiba Rectifier Part I and II, and for the Aux. power transformer. Also (1) Thyristoformer – Polarization Rectifier
7821-29	Stock	Henderson, NV	SYSTEMS	Electrolysis Cells				The plant has (8) titanium reactors (Approx. 6' OD x 20') each with 3 Krebs NC 30 electrolysis cells with all interconnecting piping, buss bar and structural steel supports. Each cell has 36 anodes with 1311.125 sq. in. (33.3 sq. m) per anode. Operated at 105,000 amps a full capacity, which is 2.225 amps per sq. in. current density. Anodes are titanium and cathodes are carbon steel. Anodes were installed new in 1990, some recoated. Operated for approximately 7-8 years. Anodes are at approx. half life and in good operating condition. Anodes are titanium and cathodes are carbon steel (Material is ASTM A515 gr 60). (The cell body is 433/20.A51.03 and 02 drawings.) (3) Spare cells as well).