**Waukesha 4.2 MW Cogen Power Plant**

<table>
<thead>
<tr>
<th>AIR CONDITIONING</th>
<th>PRIME POWER</th>
<th>HOT / COLD WATER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VALUE. VALUE. VALUE!!!</strong></td>
<td>This fully integrated and engineered cogeneration power plant is based on all new equipment, previously installed but never placed in to service. Built by a Fortune 100 company for their large business campus in California, the system was designed to provide primary power, along with chillers for air conditioning and hot/cold water requirements. System designed to meet all California EPA, emissions and sound requirements, running at maximum efficiency and minimal emissions. Complete design drawings &amp; specifications, including bill of materials, major vendor information, specification sheets on major components, layout drawings, schematics, P&amp;ID drawings &amp; single lines.</td>
<td></td>
</tr>
</tbody>
</table>

**Waukesha Engines**
- **Qty:** 2
- **Model:** Waukesha # 2V-AT27GL
- **Engine Serial #s:** #C94554/1, #C94554/2
- **RPM:** 900
- **Fuel Type:** Natural Gas
- **Dims:** 355" L x 96" W x 133" H
- **Overall Weight:** 115,000 lbs.
- **Hours:** New

**Kato Generators**
- **Qty:** 2
- **Model:** KATO Engineering, #8P10.5-4200
- **Rating:** 2100 kW / 2625 kVA
- **Serial #s:** #C94554-901/1, #C94554-901/2
- **Class:** Class F, 105 degrees C rise
- **Volt/Phase:** 1215 Amps @ 12,470V, 60 Hz, 3-Phase
- **Leads:** 6, Non-Reconnectable
- **Pitch:** 2/3 (Two Thirds)
- **Overall Weight:** 36,000 lbs.

**Alternator Details:** Six wire WYE connected w/a PMG. Enclosure is TEFC w/top mounted air to air heat exchanger w/stainless steel tubes. Side mounted High Voltage terminal box w/differential @ cross current compensation CT’s. 100 ohm winding temperature and air discharge RTD’s. Gen bearings self lubricated w/onboard lube pump, oil cooler & filtration system. Gen controls include voltage regulator, var/pf controller & synchronizer. Avtron 200A, 40 ohm, 10 second neutral grounding resistors.
**ENGINE / GENERATOR CONTROLS & SWITCHGEAR**
- 15 kV Switchgear: (2) 1200A generator breakers, (1) 1200A main breaker w/ 1200A, 15kV Isolation Switch
- Square D Modicon Based Control System
- Woodward - 701A Speed Governor, Load Sharing Module, Synchronizer, Voltage Regulator & Var/PF
- Touchscreen HMI
- (2) Waukesha Engomatic Engine Control & Guage Panels

**SINGLE STAGE ABSORPTION Chiller**
- Trane - Model ABSD0800H Horizon
- Rated @ 781 Tons, 460V, 60 Hz
- Hot Water Flow Rate = 1,442 GPM @ 230-250 F
- Chilled Water Flow Rate = 1,245 GPM @ 59 F/44 F
- Trane UPCP2 Chiller Control Panel with all monitoring, control & protection functions
- VFD controlled solution pumps...Hot and cooling water flanged connections
- Copper tube heat exchangers in the evaporator, condenser and absorber sections

**SCR EXHAUST & UREA INJECTION SYSTEMS**
- (2) Johnson-Mathey, 200CPSI
- Emissions: 0.15 grams/bhp-hr Nox; 0.6 grams/bhp-hr CO
- Exhaust Silencer: GT 6100 Super Critical Hospital Grade
- Exhaust Flow Rate: 32619 (lb/hr) +/- 6%
- Exhaust Temperature: 700 degrees F (+/- 75 degrees)
- All Exhaust ducts / piping components included
- (2) 2500 gal. Urea day tanks, pumps & controls (On Skids)

**WASTE HEAT RECOVERY**
- (2) Exhaust Heat Recovery Heat Exchangers
  - Vaporphase ECXW-Model #5411-2
  - Exhaust Flow Rate: 32619.00
  - Heat Exchanged: 3.5 MMBTU exhaust gas; 3557 lb/hr liquid (demin water)

**HEAT EXCHANGERS**
Bryan Power offers a robust suite of services to complement any equipment solution, supporting our clients at every phase from initial planning and design on through installation, start-up and beyond final commissioning and handover. Our highly collaborative process adds value at every phase of a project to deliver our clients a fully integrated, reliable solution. Our “tooth to tail, single source provider” approach provides everything you’ll need to make this Waukesha package a part of your company’s “power portfolio” for many years to come. For more information on the Waukesha CoGen plant or any other industrial power needs you might have, please visit our website or contact us at:

Bryan Power Generation
7025 Campus Dr
Colorado Springs, CO 80906
E-mail: info@bryan-power.com
www.bryan-power.com