

Item 8.c



Grayson Power Plant

Unit 9 Chiller Overhaul and a Five-Year Service Agreement with Trane U.S. Inc.

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Glendale Water & Power

Unit 9 Chiller

- Trane CenTerVac water-cooled duplex centrifugal chiller
- Over 20 years old
- Maximizes power generation during high ambient temperatures
- Serviced by various non-OEM vendors
- Need for Sole-Source



Representative image of a simplex (single compressor) Trane CenTraVac chiller

Current Issues with the Unit 9 Chiller

- Chiller out-of-service
 - 13 MW derate during high ambient temperatures
- Circuit 1 compressor
 - Very dark oil and high acid content
- Circuit 2 compressor
 - High vibration and erratic amperage fluctuations
- Refrigerant monitor (leak detector) not working



CHARACTERISTICS	RESULT
Moisture	50
Acid	0.1580
Aluminum	0.0280

Photos of the circuit 1 very dark oil and oil sample analysis results



Photo of circuit 2 testing showing erratic amperage fluctuations

Recommendation

- Overhaul the chiller, add a refrigerant clean-up kit, and replace the refrigerant monitor
 - Trane CenTraVac R'newal Service Program
 - Trane U.S. Inc. is the only authorized vendor
- Dispense with competitive bidding and authorize:
 - Service Agreement with Trane U.S. Inc.
 - Overhaul work, and 5 years of preventative maintenance and service
 - Not to exceed contract amount of \$930,790, which includes a 25% contingency



Questions?



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