

Douglas Howell, Vice President of Service & Maintenance

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SERVICE AGGREEMENT – All INCLUSIVE 100% WARRANTY

City of Santa Ana 215 S Center St Santa Ana, CA 92703

Service Fee Proposal for All Inclusive CNG Station Maintenance

Monthly Flat Service Rates are as follows:

Year 1 - \$4,200 per month

Year 2 - \$4,200 per month

Year 3 - \$4,200 per month

Year 4 (Renewal Option) - \$4,200 per month

Year 5 (Renewal Option) - \$4,200 per month

Estimated annual usage: 100,000 + GGE (GGE being 123.57 cubic ft or 5.66 lbs. of natural gas)

TruStar Energy agrees to the general O&M terms as outlined in the RFP including:

- Contractor shall perform preventative maintenance on the compressors and inspections on the dispensing system Bi-Weekly.
- The Contractor shall respond within 4 hours of an emergency shutdown event.
- Contractor's service must be of such high quantity and quality so that all CNG vehicles will be ready for operational rollout on any given morning during the contract.
- Contractor shall have the capability to remotely monitor the key compressor system variables such as flow, temperature and pressure with a laptop computer and remote alarm, if applicable.
- Contractor's trained Operations and Maintenance (O&M) personnel or its vendors subcontractors must check-in and inform Fleet Services staff of the reason for the visit before entering the compressor compound area and the fueling island area for service and/or repairs.
- Contractor is to submit their inspection reports as part of the RFP response for approval by the City.
- A separate inspection form shall be completed for each unit or system. Any problems or
 deficiencies observed during services or testing that may interfere with the equipment's
 operation are to be reported immediately to the Fleet Services Management or Supervision to
 determine and/or approve further action.

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- A copy of the company's service report with all pertinent information regarding the service(s) are to be signed with a copy left at the Fleet Services office; and a copy is to be emailed to ESosa@santa-ana.org with the invoice.
- All hoses replaced in the maintenance or repair under this agreement are to be new and free of defects.
- All parts, (excluding hoses) used in the maintenance or repair under this agreement are to be new or certified rebuilt unless approved by the City's Fleet Services Manager or his/her designee.
- All repairs shall be guaranteed for a minimum of 120 days, new equipment installations shall be covered under the manufactures warranty from the date of installation.
- All inspections are to be performed during regular City business hours.
- Invoices shall include a summary of the service or repair; with itemized parts and materials if applicable; a copy of the service order must accompany invoices and must be sent to the same Fleet Services email address above.
- Although not required for normal maintenance a C-10 electrical contractors license was included to cover any repairs that may require this skill set.

Standard Service Type Included in All Inclusive Agreement:

Each visit will include, but will not be limited to the elements outlined under the "Preventative Maintenance General Terms"

All Consumables

All Service Parts

All Compressor Major and Minor Rebuilds – Including electric motors

All Equipment warranty and parts fulfillment – 100% full coverage during the term of the agreement

All Scheduled required labor

All Unscheduled emergency labors

Weekly service visits with a minimum of 5 hours on site

365/24/7 station remote monitoring

On Site Response time on full station outage- 6 hours or less

On Site Response, partial station outage – 24 hours or less

Dedicated Service Van and Technician

On site storage of daily and weekly required consumables

TruStar Energy will install a Wireless Communication Panel on Site to provide real time/ Minute by Minute status of the CNG station. This Communication panel will log station operation and activity to help predict maintenance failure before they happen. This information will be available on a cloud-based server for both TruStar Energy and the customer. This allows TruStar to provide 365/24/7 station monitoring.

PREVENTATIVE MAINTENANCE – General Terms

- TruStar Technician will be on site weekly to provide maintenance services.
- TruStar Technician will visit with site manager at the beginning of the site visit to get a list of any known deficiencies that require attention and need correction.

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- TruStar Energy personnel shall prepare and provide client with a (PM) Service report at the conclusion of each (PM) or repair event. This report shall detail (PM) activities, actions taken, and list potential future hard parts replacement events.
- TruStar Energy shall perform such (PM) services during normal business days and hours of operation.
- TruStar Energy personnel will not remove hazardous waste materials (used Oil) from Customer's job site. Customer shall provide TruStar Energy with approved containers for the disposal of subject hazardous waste materials.
- TruStar Energy provide 100% parts, service and warranty on the station during the term. If there is damage created to the station that is not part of ongoing wear and tear of CNG operations, TruStar will invoice for any damaged parts and labor caused by customer negligence such as trucks driving away with connected hoses and equipment hit and damaged by trucks. Prior to invoicing, TruStar will discuss damage with the customer site manager and get sign off for repairs. Customer will reserve the rights to replace or repair customer damaged items at their own expense.
- All Major compressor rebuilds will be done by Ariel or Sauer factory trained and certified compressor Master Technicians.
- Below are the tasks required to maintain the CNG station that TruStar will be providing along
 with weekly inspection reports filled out by the site technicians and made available to the
 customer.



Preventative Maintenance Schedule – Maintenance Checklist and Duties Guidelines done by TruStar Energy

Tasks included in PM agreement done by TruStar Energy factory trained field service technicians:

Compressors & Related Equipment

Logging

- Log running hours
- Log temperatures
- Log suction pressure
- Log inter-stage pressures
- Log Oil Levels and usage

Compressors

- Check oil consumption and oil levels
- Check leak rate of mechanical seals
- Drain effluents from receiver tank
- Leak check pressurized loop. Look and listen for leaks
- Run to operating conditions; if able
- Record operating temperatures
- Record operating pressures
- Record motor FLA
- Observe & record unusual conditions
- Observe compressor control operations
- Observe priority or buffer fill operation
- Fill vehicles as available
- Observe dispenser operations
- Check gas dryer operations
- Inspect suction filter; change as required
- Replace all inter-stage filter elements; as applicable and to manufacturers requirements
- Exchange motion work oil and filter" as applicable and to manufacturers requirements
- Clean motion work oil strainer during oil changes
- Inspect/clean discharge check valves
- Check inter-stage check valves for contamination
- Clean V-belt grooves of flywheel and motor pulleys
- Check condition of V-belt and belt tension
- Clean/Inspect suction/discharge valves of all stages
- Grease/lubricate motor bearings
- Check condensate collecting tank for contamination
- Check all flexible hoses for signs of deterioration or damage
- Inspect V-belts for proper wear and alignment
- Torque all cylinder heads (machine warm and in standstill condition)

Dispensers – Fast Fill (if applicable)

Verify on/off switch operations

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- Visually inspect tubing, piping and valves for leaks and abnormalities
- Check and drain inlet filters
- Check valve sequencing
- Visually inspect all pressure relief devices for signs of failure or leakage.
- Verify ESD control functions and safety equipment
- Verify on/off switch operations
- Verify ESD control functions
- Verify 4,250-psig maximum fill pressure limits

<u>Dispensers – Time Fill</u>

- Visually inspect tubing, piping and valves for leaks and abnormalities
- Check and drain inlet filters
- Verify ESD control functions and safety equipment

Methane Gas Detection Sensors

- Verify and test operations
- Test equipment to meet OEM design criteria
- Repair and replace defective equipment

Inlet Gas Dryer

- Monthly Drain pre-filter, blower housing and sump
- Monthly Check differential pressure across pre-filter and after-filter elements. Replace if required when gauge is approaching Red zone or 3-5 PSID
- Monthly Check dewpoint for reading below -40F. If above, then regenerate dryer
- Monthly -Check and maintain operating conditions: pressure, flow, temperature within the design parameters of the dryer.
- Six Month Recalibrate/check span of moisture analyzer.
- Six Month Replace pre-filter, after filter and separator elements if needed.
- Annually Regenerate dryer, check regeneration cycle to ensure working properly
- 1000 hours change oil in blower

2000 Hour intervals

- Post compression coalescing filter element replacement.
- Compressor frame oil replacement (Crankcase Oil)
- Compressor frame oil replacement (Crankcase Oil Filter)
- Compressor oil strainer element cleaning.
- Force feed lubricator box lube oil replacement.
- Force feed lubricator filter replacement.
- Compressor interstage coalescing filter element replacement.
- Driver motor lubrication (Grease bearings per manufactures recommendations)

3000 Hour Intervals

Post compression coalescing filter element replacement.

4,000- & 8,000-Hour Intervals – Compressor rebuild

- Post compression coalescing filter element replacement.
- Compressor frame oil replacement (Crankcase Oil)
- Compressor frame oil replacement (Crankcase Oil Filter)
- Compressor oil strainer element cleaning.
- Force feed lubricator box lube oil replacement.
- Force feed lubricator filter replacement.
- Compressor interstage coalescing filter element replacement.
- Driver motor lubrication (Grease bearings per manufactures recommendations)
- Compressor valves (Rebuild or Replace)
- Measure & record all internal critical clearances (Per Ariel Specifications)
- (Replace any out of spec components)
- Compressor piston ring/rider band replacement.
- Compressor packing rebuild or replacement.
- Check all compressor critical fasteners for proper torque (Nozzles, valve caps, heads, packing cases, etc.)
- Compressor soft foot measure & record (Correct if needed per Ariel spec)
- Compressor to driver alignment & record (Correct if needed per Ariel spec)



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	Sta				Inspection Report						
	Curtomor	Information				Famic	e Labor				
Customer ID	Customer	Service Site ID					1				
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Contact Name									 		
Address									 		
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		Descrip		THE OHECK		ments	Good	Repair	N/A		
	Inspect compressor		for damage and/or w	ater leaks	551111				-40		
	Inspect for oil leaks										
		e compressor frame									
		bing clamps and con									
	Check fault logs and										
	Check daily service										
Compressor And	Drain relief valve ve		incom in com								
Controls Checklist	Drain crankcase bre	-									
CONTROL CITECUIST	Observe the compre										
	Record unusual nois										
	Check that control p										
	Compare transduce										
	Check that alarm/fa			<u> </u>							
	Check ESD operatio										
	Observe operation										
Priority Panel And	Inspect panel & tub										
Gas Storage	Inspect buffer stora										
Inspection	Drain post compres										
	Check for damage	SION MILETS									
		dicator (In cold weat									
Gas Dryer	Check filter differen										
Inspection	Check dew point (R										
	Drain dryer filter co										
	Check daily service										
Dispenser, Fill Post	Check for fault code										
And Defueling	Inspect hoses, nozz										
Systems	Inspect all time fill p										
-	Observe vehicle fue										
		n lines, fittings & valv	dryer								
	All dryer connection										
	Supply lines from d										
	All connections, fitt										
	Supply lines to prior										
	All connections, fitt										
		Supply lines, fittings & valves before and after buffer storage									
	Post compression fi										
	All time fill lines, co										

Tru Ene	Sta					Inspection Report					
		O #4	6 #3	A		C	O #5	6	C #0		
	Inspecti Compressor Hours***	on		comp #1	Comp #2	Comp #3	Comp #4	Comp #5	Comp #6	Comp #7	Comp #8
	Oil Level*	Full Oil Level Indicator	Hours Full/Add								
Bussins @ Co. Temp	Oil Pressure*		Psig								
Running @ Op. Temp	Rec. Tank Pressure	40 Psig Hot Normal									
Running @ Op. Temp Running @ Op. Temp	Injet Pressure*	1 To 3 Psig (2 Psig Normal)	Psig Psig								
naming er op. remp	Ambient Air Temp	(For Time FII Compressor)	Deg F								
	Stage:		Degr								
Running @ Op. Temp	Pressure*	43 To 58 Psiq	Psig								
0.0		220 To 260F									
Running @ Op. Temp	Discharge Temp* Stage		Deg F								
Rupping @ On Tamp	Pressure*	220 To 250 Psig	Psig								
Running @ Op. Temp Running @ Op. Temp	Discharge Temp*	260 To 290F	Deg F								
Kulling & Op. Temp	Stage:		Degr								
Running @ Op. Temp	Pressure*	870 To 1015 Psig	Psig								
Running @ Op. Temp	Discharge Temp*	-									
Running & Op. Temp	Stage 4	220 To 260F	<u>Sun</u>								
Running @ Op. Temp	Pressure*		Psig								
		Not More Than 100 Psig Above Final 240 To 270F	_								
Running @ Op. Temp	Discharge Temp* Final	240 TO 270P	Deg F								
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	Discharge Pressure Time Fill Presure		Psig Psig								
Running @ Op. Temp	Dryer		Fag								
Running @ Op. Temp	Moisture Monitor **	(Red, Yellow, Green)	Dee C								
Running @ Op. Temp	Inlet Pressure	(ned, renow, dreen)	Deg F Psig								
Drain Condensate Collection Points			Falg								
Di	Drain Compressor - Re		Oz								
	Drain Compressor - Ini		Oz								
	 	mpression Filters (Total)	Oz								
	Gas Meter R		- 52								
	Main Inlet Gas Meter	Meter				T					
Yearly	Weights And Measure	Date				t					
	algina rolla inicasal c			Site Note							

^{*} Contact senior technician if readings out of range

^{**}Contact service manager if close to red to schedule regen of dryer

^{***}Contact service manager when compressor hours reaches 800,1800,2800,3800 etc.



Service Labor

Recommendations Or Additional Service Required Inspection Completion Signature			Service Technician Time Card Travel							
Recommendations Or Additional Service Required Inspection Completion Signature	or S	Date	Clock In	Clock Out	Total Hrs	Employee	Vehicle Mileage	Hotel Stay=Y	CC Expenses=Y	Car Rental=Y
Inspection Completion Signature										
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Customer Technician Technician				l l	ispection com		2			
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servicedept@trustarenergy.com

Service Office Rochester Minnesota (844)236-7562 Construction Office Rancho Cucamonga California (909) 793-3700

2/28/201

SERVICE AGGREEMENT - All INCLUSIVE 100% WARRANTY

All Inclusive Service Agreement between:

This All-Inclusive Maintenance Agreement for CNG station is offered between TruStar Energy and City of Santa Ana

Authorized TruStar Energy Representative-Doug Howell

Signature here:

Date: 8/28/2020

Phone: 813-545-1343

Email: dhowell@trustarenergy.com

Authorized Customer Representative -

Signature here:

Date:

Phone: Email:

TruStar Energy CNG