



# TOWN OF JACKSON TOWN COUNCIL AGENDA DOCUMENTATION

**PREPARATION DATE:** November 8, 2016  
**MEETING DATE:** November 14, 2016

**SUBMITTING DEPARTMENT:** Public Works  
**DEPARTMENT DIRECTOR:** Larry Pardee  
**PRESENTER:** Josh Frappart, Associate Engineer

**SUBJECT: Request Council authorization to complete the Design and Installation of the On-site Compressed Natural Gas (CNG) Refueling System.**

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## STATEMENT/PURPOSE

The purpose of this item is to obtain Council Consent to complete the Design and Installation of the On-site Compressed Natural Gas (CNG) Refueling System.

## BACKGROUND/ALTERNATIVES

In the support of Energy Conservation Work's mission and listed Goal 2 – (*To partner with and support the wide array of organizations working on reducing emissions from transportation*), ECW sought awarded \$766,665 from the Wyoming Business Council's for the construction of a compressed natural gas fueling station to serve the community.

Teton County Energy Mitigation Funds and 2010 SPET funds, in the amount of \$214,668 each, were secured as additional local matching funds for the project in January of 2016. Originally slated to be located at Shervin's Independent Oil, 400 US-89, the site proved unfeasible after two public RFP processes for the station construction at that site.

In May 2016 the Wyoming Businesses Council reviewed a request from ECW to 1) Modify the project budget to reflect additional local matching funds, 2) Assign ownership of the equipment to the Town of Jackson, and 3) Relocate the station. The WBC Board unanimously supported a new RFP for selecting an alternate location and requested an update in September to formally approve all three grant amendments.

Through a public RFP in July 2016, Lower Valley Energy was selected as the site for construction of the CNG station and LVE's Board formally approved this use at their August Board Meeting. The WBC approved the requested amendments at their September Meeting and the design and construction of the station at their site was put to a public RFP immediately following.

The CNG Committee is comprised of Town of Jackson, Lower Valley Energy, and Energy Conservation Staff. The committee met several times to review the four complete proposals for the project design and construction at the LVE site, issuing one series of clarifications to each of the four parties responding. Ultimately the committee selected the bid from TruStar based on the professionalism and completeness of their proposal and their team, total project costs, and relevant experience.

The Jackson Town Council has several options to consider and proceed with:

- Approve the construction contract of the CNG refueling station
- Place the CNG refueling system on hold by denying the contract

ALIGNMENT WITH COUNCIL'S STRATEGIC INTENT

Economic Stability: strategy - Create an inviting downtown environment and improve walkability, also effectively manage the Town's on street and off street parking inventory.

ATTACHMENTS

TruStar Energy RFP Response

FISCAL IMPACT

The fiscal budget and cost breakdown are shown below:

<b>CNG Station – Lower Valley Site</b>	
<b>Revenues</b>	<b>\$\$\$</b>
WY Business - Grant	\$766,665
ECW	\$214,668
EMP	\$214,668
<b>Project Budget:</b>	<b>\$1,196,001</b>
<b>Expenditure</b>	<b>\$\$\$</b>
TruStar Equipment (complete)	\$909,439.40
<b>LVE &amp; TOJ:</b>	
2nd Dispensing unit	\$47,500.00
Power systems	\$21,450.00
Gas Service Installation	\$21,500.00
Reinforced Concrete (Driveway Flat work)	\$95,500.00
Conduit systems	\$10,500.00
Landscaping	\$5,500.00
Surface restoration	\$7,500.00
Fencing	\$5,500.00
Lighting	\$10,500.00
Entry Sign	\$6,500.00
Force account	\$50,000.00
<b>Estimated Total Costs:</b>	<b>\$1,191,389.40</b>

### STAFF IMPACT

During this project the majority of the PW staff shall be involved with helping with project management and helping with construction coordination. It is estimated that a minimum of 120 hours of PW staff time shall be required.

### LEGAL REVIEW

The Town Attorney shall need to provide a final approval of the construction contract prior to execution by the Mayor.

### RECOMMENDATION

That the Town Council approves of the construction contract for CNG refueling system

### SUGGESTED MOTION

I move that the Town Council approve of the construction contract for the CNG refueling system with TruStar of Rancho Cucamonga, CA in the amount of \$909,439.40 and upon legal approval authorize the mayor to execute all necessary contract Agreements.

# Design and Install On-site Compressed Natural Gas (CNG) Refueling System

## A Single Compressor Fast Fill System

Created Exclusively for The Town of Jackson



Prepared by

Mike Tucker  
mtucker@trustarenergy.com  
Office 909.793.3700 Cell 253.561.2870  
10225 Philadelphia Court  
Rancho Cucamonga CA 91730  
trustarenergy.com

## 2 a) Experience of Overall Firm and Key Personnel

1. TruStar Energy LLC is the largest and most successful privately held all employee CNG infrastructure contractor in the U.S. TruStar Energy LLC has been designing building and maintaining CNG stations since 2009. We have successfully completed over 140 projects in the US and Canada and currently have a very robust back log insuring longevity in the energy market.

TruStar Energy LLC is very proud to serve customers such as UPS, The Chrysler Corporation and many other entities trusting TruStar Energy LLC with millions of gallons under maintenance contract. TruStar Energy LLC joined the Fortistar Capital family in January 2013 who over the past five years has raised debt and equity for its operating subsidiaries in excess of \$1 billion dollars. This financial strength has given TruStar Energy the ability to see our vision of full suite design, turnkey fueling solutions and a sturdy platform to serve our customers.

This project fits perfectly into the TruStar Energy fold. The location, gas pressure, storage and scfm have all the elements of a truly well performing fast fill station. The proposed station will have **1 Ariel/ANGI compressors each flowing 425 scfm**. The bottles will hold 476 GGE and will complete most fills without the use of the compressors then refilling the bottles at a prescribed "low pressure setting". The system comes with an arctic heater in the compressor enclosures, a heater in the priority panel and the heater package for the dryer. The two hose dispenser will be ANGI Series II and will have stubs for a future dispenser. We look forward to offering you our best in making this a great experience and an addition to the Town of Jackson's offerings to its residents.

### i) TruStar Energy Corporate Hierarchy

President CEO **Adam Comora**  
CFO **Michael McLaughlin**  
VP Sales, General Manager **Scott Edelbach**  
VP Maintenance **Doug Howell**  
VP Construction and Engineering **Jeff Lucero**  
Controller **Kelly Lloyd**  
Director of Financial Planning and Analysis **Tamela Velazquez**  
General Council **Tom Kelly**  
Director Sales and Marketing **Jeffrey Swertfeger**  
National Construction Director **Jesse Moran**  
National Construction Director **Brandon Rapallo**  
National Maintenance Director **Chuck Gregg**

### ii) Corporate Overview

Vocational Energy LLC was founded in March of 2009 by Jeff Lucero (12 years CNG construction) and Scott Edelbach (former VP of McNeilus Truck and Manufacturing, Co). Vocational Energy enjoyed great success in the CNG infrastructure market, servicing primarily vocational fleets and grew exponentially in scope and ability, garnering the attention of Fortistar Capital LLC in late 2012. Fortistar acquired Vocational Energy in January 2013 and renamed the company to TruStar Energy LLC. The entire Vocational Energy team remained in place and has been augmented by other talented industry specialists who have expanded TruStar Energy's expertise and products and services. We are at present a company of 80 plus employees and growing. TruStar Energy is actively engaged in many market segments and with a solid reputation of on time and on-budget builds, we have become a market leader.

### Mission Statement

Our mission is to provide a full suite of clean-fueling solutions, dovetailed with flexible fueling strategies that deliver productivity and profit to our customers' bottom line.



- a) TruStar Energy is unique in the industry as all design and engineering will be performed from our Rancho Office, the Project Manager will be a TruStar employee and all subcontractors will work directly for TruStar Energy. We have proven over and over that with this model we retain control over all aspects of the project and can maintain our “on time and on budget” delivery promise. With one call to the office we can answer any question or issues because most of the people in the office have worked directly on your project in some capacity.

**Scott Edelbach**, VP Sales, General Manager, based in Tampa, FL: Company founder in 2009, Scott has general oversight of all divisions within TruStar Energy. He will sign all contracts, places orders for all equipment, and will be involved in every aspect of this project.

**Jeff Lucero**, VP of Construction: Based in Rancho Cucamonga, CA: Company founder 2009. Jeff will lead the entire construction team, including all design and planning, permits, construction site layout, ordering of special equipment, and will have general oversight of the build. Current location is Rancho Cucamonga, CA.

**Maria Bolechowski**, Project Coordinator / Engineering Designer: based in Rancho Cucamonga, joined TruStar Energy in 2012: Maria will visit the site, and with her staff, coordinate all design and engineering, permits, order equipment, coordinate utility construction, and have general oversight to the construction process from start to finish.

**Brandon Rapallo**, Senior Project Manager, joined TruStar Energy in 2011: Brandon is our longest serving Project Manager with more than 14 years of directing construction crews. He is well versed on directing subcontractors and vendors on detailed job sites. Brandon is also a certified high-pressure gas line installer. Current location is Rancho Cucamonga, CA.

**Jesse Moran**, National Project Manager, joined TruStar Energy in 2011: Jesse has over 2 decades of managing large commercial construction projects. He manages over 50 TruStar Energy construction personnel as well as directing 3<sup>rd</sup> party civil crews throughout the US. Jesse's roles include site management, vendor and subcontractor procurement, compliance with local, state, and federal building codes, and OSHA and NFP protocols. Current location is Rancho Cucamonga, CA.

PERSONNEL



**Qualifications**

2009 - 2012

**Vocational Energy**

Co-Owner, V.P.  
Focused on development of CNG fueling strategies for the Vocational Market.

1991 - 2009

**McNeilus Truck and Mfg.**

V.P. of Refuse Sales  
Directed all North American Sales and oversaw New Product Development

Scott Edelbach has spent the majority of his professional life emerged in the heavy duty vehicle market segment, starting with McNeilus Truck and Manufacturing in 1991. As the General Manager of Refuse Operations for North America's largest manufacturer of garbage trucks and concrete trucks, Edelbach was instrumental in developing products and sales strategies that resonated with their customer base – including all of the major refuse haulers throughout the US, Canada, and Latin America.

Edelbach led in the early development of CNG-powered garbage trucks and worked with engineers and designers to be the first US manufacturer to integrate the production of CNG-configured products into McNeilus' automated assembly line. As a visionary and an entrepreneur, Edelbach saw the migration to CNG-powered vehicles accelerating and realized that infrastructure would be the bottleneck.

Edelbach left McNeilus in 2009 and formed TruStar Energy to provide Turn-Key CNG stations for the North American market. With the vocational market in his sites, Edelbach quickly formed a core team of engineers, designers, and sales personnel who had similar backgrounds. Edelbach developed the value proposition that a self-contained approach to station design and construction – without subcontractor confusion – would be the fastest and most economical way to develop CNG fueling infrastructure for savvy customers. He also understood that customers needed a flexible approach to their fueling infrastructure needs that would dovetail with their specific business models.

TruStar Energy to date has completed over 100 CNG station projects in North America and lists major municipalities, Fortune 100 companies, and large private fleets among its customers.



**Qualifications**

**Journeyman Electrician**

**Licensed General Contractor [Multi State]**

**TX Railroad Commission Certified**

**NFPA Member**

Jeff Lucero has been directly involved in the design and construction of CNG fueling infrastructure for over 16 years, which includes the completion of over 150 stations throughout the US.

Lucero has developed a 'hands-on' approach to the design and construction process – and directly oversees all TruStar Energy projects. He was the architect behind the development of self-contained construction teams that are responsible for building TruStar Energy stations throughout the US and Canada. This systematic approach to infrastructure design and construction ensures that TruStar Energy best practices are consistently followed to ensure optimal station performance – and customer satisfaction.

Lucero oversees TruStar Energy's manufacturing operations in Rancho Cucamonga, CA, and is also responsible for New Product Development and Vendor Sourcing.

Lucero is a certified Journeyman Electrician, is a licensed General Contractor's in several states, is certified by the TX Railroad Commission, and a member of the NFPA.



### Qualifications

#### **TruStar Energy**

2012 - Present  
Senior Start Up Tech.

#### **Cortes Drafting Services**

2007 - 2012  
Manager of Engineering &  
Project Coordination

Maria Bolechowski has spent 19 years in the field of mechanical engineering and serves as TruStar Energy's Engineering Manager / Project Coordinator. Bolechowski has managed 30 separate projects simultaneously and is skilled vendor coordinator / scheduler.

Bolechowski is also responsible for overseeing the engineering efforts of all TruStar Energy projects - as well as ensuring that the appropriate permits have been obtained and that all plans adhere to all applicable Federal, State, and local building codes.

Bolechowski brings an entrepreneurial spirit to TruStar Energy, having been a business owner herself. Bolechowski is also fluent in Spanish. In addition, she earned her Associates Degree in Applied Science in Computed Aided Drafting Technology from ITT Technical Institute.



**Qualifications**

**TruStar Energy**  
2011 - Present  
Regional Project Manager

**K. Hovnanian Homes**  
2002 - 2010  
Senior Community Construction Manager

Brandon Rapallo is among the longest-serving TruStar Energy Project Managers - and comes with more than 14 years of directing construction crews, including 12 years with one of the nation's largest home builders. Rapallo is a skilled, "hands on" project coordinator who is well versed at directing subcontractors and vendors on detailed job sites.

In addition, Rapallo ensures that all job site work is conducted in a safe manner and compliant with all OSHA regulations. Rapallo is a very hands-on Project Manager and is a certified high-pressure gas line installer. Rapallo will oversee upwards of 20 station builds annually for TruStar Energy.

Rapallo's attention to detail, managerial expertise and problem solving skills make him a valuable asset to the TruStar Energy Construction Team.



**Qualifications**

**TruStar Energy**  
2011 - Present  
National Project Manager

**RD Olson Construction**  
2006 - 2011  
Project Superintendent

**KB Homes**  
2004 - 2005  
Off-Site Construction  
Superintendent

**CERTIFICATIONS**

General Contractor Class  
B - California

C-8 Concrete License -  
California

Jesse Moran brings over two decades of managing large commercial construction projects to TruStar Energy. Moran is responsible for the day-to-day operations of over 50 TruStar Energy construction personnel - as well as directing 3rd party civil crews throughout the US.

Moran's skills as a project manager and hands-on construction specialist allow him to perform all necessary construction tasks needed to maintain the demanding schedules needed to keep TruStar Energy station construction projects on schedule and on budget.

Moran's role includes on site management of all projects, vendor and subcontractor procurement, compliance with all local, state, and federal building codes - as well as adherence to OSHA and NFP protocols.

## **2 b) Licensing Information**

TruStar Energy holds a General Contractors licenses in many states. After Talking to Steve Haines at the Jackson Building Dept. We learned that there is reciprocity in Wyoming with Oregon, Washington, Utah and several other States. TruStar can use one of these licenses to obtain the Town of Jackson Business License and the gas and electric permits. We will attempt to work in some capacity one or all these services, Mechanical, Electrical and Civil .

## **2 c) Recent Work History**

TruStar Energy has completed well over 140 projects in The United States and Canada. **Please see attached sheets immediately after this sheet** for similar fast fill projects and their contact information. Further references available upon request

## **2 d) Client Contact Information**

**Please see attached sheets immediately after this sheet for contact information.**

## **2 e) Identification of Subcontractors**

TruStar Energy has working relationships with many subcontractors depending on the scope of work. We only hire subs that have the proper certifications, insurances and most of all can demonstrate competence, history, and the skill level to complete their part of the project. If awarded, we will first look to the local community of the Town of Jackson and surrounding area for good subcontractors.

As stated before we will be working in some capacity with local– General Contractor Services: In some capacity one or all these services, Mechanical, Electrical and Civil .

## **2 f) Arbitration or Litigation**

TruStar Energy is not and has not been in any arbitration or litigation at any time. We will not be using any subs involved in arbitration or litigation in the past 5 years on this project.

## **2 g) Bankruptcy or Reorganization**

TruStar Energy LLC nor any of the subcontractors have filed for bankruptcy or reorganization.

## **2 h) W9**

**Please find W9 form Immediately after reference job sheets**

# RECENT REFERENCES

COMPLETE REFERENCE LIST AVAILABLE  
UPON REQUEST

# MUNICIPAL INFRASTRUCTURE

## Refuse Market Segment

### City of Denver, CO

#### Job Specifics:

TruStar Energy designed and constructed a combination Fast Fill/Tim Fill fueling station to incorporate both time-fill fueling for Denver's sanitation fleet - as well as fast-fill capabilities for other vehicles needing on-demand fuel access. This station also included a secondary power generator to ensure the fueling station would remain operational in the event of a power outage.

#### Equipment Specifics:

Compressors: Two (2) ANGI 250 hp / 587 scfm (ea)  
Compressor Expansion Pads: Two (2)  
68 Time-Fill Hoses Installed / 138 Total Planned  
Dryer: PSB On-Skid Manual Regeneration  
Storage: Four (4) 23' FIBA Tubes (120 gallons)  
Dispensers: One (1) Gilbarco Dual Hose Low Flow  
Fuel Management System: Fuelforce  
Backup Generator: Kohler

#### TruStar Energy Personnel Involvement:

Jeff Lucero - Vice President of Construction  
Scott Edelbach - Vice President of Sales  
Mike Tucker - Northwest Sales Director  
Maria Bolechowski - Director of Engineering  
Brandon Rapollo - On-Site Project Manager  
Doug Howell - Vice President of Maintenance & Service

#### City of Denver Contact Info:

Patrick Riley  
patrick.riley@denvergov.org  
720-865-3035



# PUBLIC FAST-FILL STATION

## Agricultural Market Segment

### Seaboard Corporation - Guymon, OK

#### Job Specifics:

TruStar Energy designed and constructed a large public fast-fill station for a nationally recognized meat processor to support their company's transportation arm - and its large Guymon, OK processing facility. This station was designed to fuel their large CNG-based fleet as well as provide fuel for the general public. The station was designed with future expansion in mind - including pads for two additional compressors and an additional gas dryer.

#### Equipment Specifics:

Compressors: Two (2) ANGI 250 hp / 952 scfm (ea)  
Dryer: PSB Twin Tower  
Storage: Six (3) 23' FIBA Tubes (180 gallons)  
Dispensers: Two (2) Kraus Dual Hose Combo  
Fuel Management System: Fuelmaster

#### TruStar Energy Personnel Involvement:

Jeff Lucero - Vice President of Construction  
Scott Edelbach - Vice President of Sales  
Mike Tucker - Northwest Sales Director  
Maria Bolechowski - Director of Engineering  
Dave Robeson - On-Site Project Manager  
Doug Howell - Vice President of Maintenance & Service

#### Seaboard Corporation Contact Info:

Bill Patrick  
william\_patrick@hpbioenergy.com



## PRIVATE FAST-FILL/TIME-FILL STATION

## Automotive Industry

### Chrysler / FCA - Detroit, MI

#### Job Specifics:

TruStar Energy was approached by Fiat Chrysler Automotive (FCA) to design and construct a large, high-flow-rate station to fill their 179 class 8 tractors - responsible for delivering automotive parts to their plants throughout MI, OH, and IN. The six-compressor station is currently the largest private CNG fueling station in North America with a 40 GGE per minute fueling capacity. The station is comprised of four fast-fill dispensers and time-fill hoses to fuel 16 vehicles. The station dispenses approximately 12,500 GGE per day.

#### Equipment Specifics:

Compressors: Six (6) ANGI 300 hp / 838 scfm (ea)  
Dryer: Dual PSB Gas Dryers  
Storage: Six (6) 38' FIBA Tubes  
Dispensers: Four (4) ANGI Dispensers [5 - hoses]  
4 Dual-Hose Time-Fill Posts

#### TruStar Energy Personnel Involvement:

Jeff Lucero - Vice President of Construction  
Scott Edelbach - Vice President of Sales  
Anthony Flynn - Southeast Sales Director  
Maria Bolechowski - Director of Engineering  
Brandon Rapallo - On-Site Project Manager  
Doug Howell - Vice President of Maintenance & Service

#### FCA Contact Info:

Martin DiFiore  
martin.difiore@fcagroup.com  
313-252-2564



## PRIVATE FAST FILL / TIME FILL

### United Parcel Service (UPS)

#### Job Specifics:

TruStar Energy is a tier-one CNG station supplier for UPS, one of the most recognizable brands in the world. TruStar Energy has worked with UPS Fleet Directors to develop reliable high-volume CNG fueling stations that allow UPS to deliver millions of packages throughout the US, in full compliance with UPS's business model of on-time delivery, regardless of destination. TruStar Energy has successfully developed high-profile stations for UPS in the following locations:

Atlanta, GA  
Charleston, WV  
Dallas, TX  
Denver, CO  
Lenexa, KS  
Lexington, KY  
Montgomery, AL  
New Orleans, LA

New Stanton, PA  
Oklahoma City, OK  
Pleasantdale, GA  
Port Allen, LA  
Shreveport, LA  
Richmond, VA  
Roanoke, VA

TruStar Energy also provides comprehensive Maintenance and Service at these locations and ensures that service call response times are no more than four hours.

#### Equipment Specifics:

TruStar Energy station builds are engineered around proven, industry standard brands, including: Ariel compressors packaged by ANGI, PSB gas dryers, SwageLok fittings, Allen Bradely electrical components, etc. TruStar Energy design engineers work closely with UPS Fleet Operations personnel to specifically match the right equipment to ensure fuel requirements are met.

#### UPS Contact Info:

Provided upon request

## HIGH PROFILE PACKAGE DELIVERY



# PRIVATE FAST-FILL STATION

## Beverage Distribution

### Monarch Beverage - Indianapolis, IN

#### Job Specifics:

TruStar Energy designed a large high-capacity private fast-fill fueling station for a customer that supported both a large beverage distribution center and an interstate transport fleet. The station needed to be constructed quickly - while keeping traffic disruption to a minimum. This contract also included the development of methane detection in their shop and an optional vehicle defueling hose, located at the compressor compound. This station is also engineered for future expansion.

#### Equipment Specifics:

Compressors: Three (3) ANGI 250 hp / 452 scfm (ea)  
Dryer: PSB Dual Tower Dryer  
Storage: Four (4) 23' FIBA Tubes (120 gallons)  
Dispensers: Two (2) ANGI Dispensers [3 - hoses]

#### TruStar Energy Personnel Involvement:

Jeff Lucero - Vice President of Construction  
Scott Edelbach - Vice President of Sales  
Anthony Flynn - Southeast Sales Director  
Maria Bolechowski - Director of Engineering  
Jesse Moran - On-Site Project Manager  
Doug Howell - Vice President of Maintenance & Service

#### Monarch Contact Info:

Rob Hedges  
jrhedges@monarch-beverage.com  
317-363-0574



W9

## Request for Taxpayer Identification Number and Certification

**Give Form to the  
 requester. Do not  
 send to the IRS.**

<b>Print or type See Specific Instructions on page 2.</b>	Name (as shown on your income tax return) <b>TruStar Energy, LLC</b>	
	Business name/disregarded entity name, if different from above	
	Check appropriate box for federal tax classification: <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input checked="" type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ <span style="margin-left: 100px;"><b>P</b></span> <input type="checkbox"/> Exempt payee <input type="checkbox"/> Other (see instructions) ▶	
	Address (number, street, and apt. or suite no.) <b>10225 Philadelphia Court</b>	Requester's name and address (optional)
City, state, and ZIP code <b>Rancho Cucamonga, CA 91730</b>		
List account number(s) here (optional)		

**Part I Taxpayer Identification Number (TIN)**

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

**Note.** If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

<b>Social security number</b>									
-				-					

<b>Employer identification number</b>									
8	0	-	0	8	8	1	3	8	9

**Part II Certification**

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
- I am a U.S. citizen or other U.S. person (defined below).

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 4.

<b>Sign Here</b>	Signature of U.S. person ▶	Date ▶ <b>6.26.15</b>
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**General Instructions**

Section references are to the Internal Revenue Code unless otherwise noted.

**Purpose of Form**

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

**Note.** If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

**Definition of a U.S. person.** For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

**Special rules for partnerships.** Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

PRICE PROPOSAL  
AND  
SPECIFICATIONS

# CNG Fast-Fill Fueling Station Proposal

Created Exclusively for The Town of Jackson

10/10/2016



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**General Station Layout for Town of Jackson**





10/10/2016 - **Proposal No: 01060304**  
 Quote Valid until 01/08/17

Town of Jackson,

TruStar Energy is pleased to offer the following proposal for a fast-fill station at the following location:

Job Site  
 4000 South Hwy 89,  
 Jackson, Wyoming 83001

**This 100% turnkey proposal addresses the following requirements:**

- Design, Planning, Permitting, Equipment, Construction, Start Up and Training

**This proposal includes 1 compressor**

Use the table below to determine the production capability of this proposal  
 COMPRESSOR PERFORMANCE CAPACITY [1 DGE = 1.39 cubic feet / 1 GGE = 1.267 cubic feet]

Compressor	Per Min. Production GGE	Per Min. Production DGE	Per Hr. Production GGE	Per Hr. Production DGE	Per 7 Hr. Production GGE	Per 7 Hr. Production DGE	Per 10 Hr. Production GGE	Per 10 Hr. Production DGE
1	3.37	3.06	202.38	183.45	1416.67	1284.17	2023.81	1834.53

**The Fast-Fill Station as quoted has the following dispensing capabilities.**

**Equipment:**

- Qty of Dispenser Cabinets: 1
- Qty of Standard Flow Hoses: 2
- Qty of Commercial High-Flow Hoses: 0

Performance Characteristics of Quoted Dispensers with Storage

Hose Type	Flow Rating	Hose QTY	GPM	GPM per 15 Min		GPM per Hour	GPM per 4 Hours
Standard Flow Hoses	Max. 14 GPM Avg. Fill 5 GPM per hose	2	10	150		600	2400
<b>Total</b>		<b>2</b>	<b>10</b>	<b>150</b>	<b>600</b>	<b>2400</b>	

TruStar Energy looks forward to earning your valued business.

Mike Tucker  
 TruStar Energy Sales Representative

## FAST-FILL STATION EQUIPMENT OVERVIEW

### DESIGN AND ENGINEERING (to be performed by TruStar Energy)

TruStar Energy will initially meet to understand the requirements of your proposed station. At TruStar Energy's discretion TruStar Energy will provide exhibit drawings. The design will be based off the conceptual layout for the location. Upon signed agreement and 20% down payment, a final design will include PE-stamped CAD drawings for each phase of the project, including but not limited to: electrical, mechanical and civil for permitting purposes. TruStar Energy will acquire all permits necessary for complete build in all phases of construction.

Design and construction will consider industry standards and all executable local, State, and/or Federal building codes as interpreted by the Fire Marshall and/or building inspector with regional jurisdiction.

### PROJECT MANAGEMENT

A dedicated project manager is assigned to each project for the duration of the project. The assigned project manager is involved with the project from the design phase throughout the construction and startup. The project manager will be 100% responsible for all of the daily activity at the job site and will report construction progress to the customer's designated contact on a weekly basis. This project manager is responsible to ensure that all TruStar Energy employees and subcontractors follow TruStar Energy and Customer safety and site policies. The project management fee includes site equipment mobilization, TruStar Energy employee travel & lodging and project management.

### UTILITY EXTENSIONS REQUIRED BY CUSTOMER

- A single **High Speed Broadband Internet (RJ45) connection for CP-400 Communication (3MB minimum – 7MB optimal)** package is required at the compressor staging area.
- A second phone line is required for customers using a gas broker for a telemetric meter.
- A third **High Speed Broadband Internet (RJ45) connection (3MB minimum – 7MB optimal)** is required for customers using a credit card reader for public fuel dispensing or private fleet information collection.

### Electrical Service –

- A 400-amp electrical service is required at the compressor staging area from your Electric Utility provider - 277/480, 3 phase 4-wire service.

### Natural Gas Service –

- 35 psi pressure capable of delivering 25500 cubic feet of natural gas per hour, with the gas meter located at the compressor staging area. Note: (lower pressures can be acceptable for the production of CNG at the designated site location. Lower pressures will drop the hourly production rate of CNG.

The customer is responsible to provide all electrical, phone and gas service as required within 25 feet of the compressor compound and responsible for all associated costs. TruStar Energy will work with your local utilities to validate existing service and determine what necessary upgrades are required to satisfy utilities requirements. **Assumptions: TruStar Energy takes no responsibility for the unforeseen. TruStar Energy assumes that the soil is not contaminated and is suitable for backfill.**

## EQUIPMENT OVERVIEW

*Please find a full station order summary [including quantities] at the end of this proposal.*

### **1 ANGI 300 JGO 200 hp 425 scfm Compressors**

Compressor: Lubricated, Reciprocating, Balanced, Opposed

Number of Stages: 4

Manufacturer: ANGI - All weather enclosures included. Compressor is positioned so that access doors can be opened fully to access compressor and components inside enclosure.

### **COMPRESSOR ENCLOSURE**

The ANGI 300 compressor comes standard with a power-coated sheet metal enclosure with access doors and removable panels. The maximum emitted noise from the skid is 78 dBa @ 10' (typical for enclosed skids). Unless specified by the customer, the enclosure comes painted in white with a gray skid. Included options include one enclosure light and an IR gas detector.

### **CONSTRUCTION**

Piping 2" diameter and smaller is of socket weld construction. Piping construction methods shall conform to ANSI B31.3 3. Flanged piping joints shall use spiral-wound, metallic gaskets. Tubing shall be of seamless ASTM-316 type of adequate pressure rating. Tube fittings 1/2" or smaller shall be Hoke brand or Swagelok brand. Tube fittings 1/2" or larger shall be Parker "Seal-lok" fittings with face seal O-rings. All carbon steel surfaces shall be adequately prepped and painted using industrial epoxy paint. All components shall be suitably braced.

### **INLET SYSTEM**

Inlet connection: Varies based on site conditions. 2. Inlet Valve: Solenoid valve. 3. Inlet Filter: Particulate filter with serviceable, removable filter made of stainless steel mesh construction. 4. Inlet Flex Hose to be provided, manual isolation valve to be provided, with construction start up strainer to be provided.

### **CAPTIVE RECOVERY SYSTEM**

Complete skid-mounted captive recovery system for filter blow-down and unloaded starts and stops. The system includes a 100-gallon, vertical ASME tank rated for 600 psig. The recirculation system includes a high-flow recirculation regulator, system relief valve and receiver tank drain.

### **SKID CONSTRUCTION**

The NG300 Single Unit Skid measures 12' L x 7'-6" W x 8'-5" H, and weighs 15,000 lbs and built to Ariel Compressor Packaging Standards. The open skid is made of welded, structural beams. The main beams are full-depth steel channel or tubes. Rigid mounting surfaces are provided for the compressor and driver. The skid is designed with an overhead support frame and hold-down bolt holes are provided at four (4) external and two (2) internal locations.

### **FILTRATION**

Serviceable filtration is provided on the inlet of the compressor, on all inter-stage circuits and prior to discharge. The inlet particulate filter comes with a serviceable element made of stainless steel mesh construction. Coarse coalescing filters with stainless steel oil knock-out elements are provided on all inter-stage circuits. Pre-coalescing and fine-coalescing final filters are provided on the discharge circuit for oil elimination.



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**CONTROL SPECIFICATIONS**

Control System..... ANGI CCS Compressor Control System  
PLC Make / Model..... Panel, Control, Compressor, Horner Electric RX371  
I/O  
I/O Arrangement (Max I/O Indicated) ..... 22 DI / 16 DO / 20 AI / 4 AO  
Mounting Location of Controller ..... On-skid, UL NNNY, mounted in NEMA 3R  
Enclosure  
Electrical Classification of Control Panel..... Class I Div II Per NFPA 76  
Operator Interface ..... Panel mounted graphical display, pilot lamps  
and key switches  
Available Network Connections..... CsCAN, Ethernet, Modbus\*, DeviceNet

**INSTRUMENTATION**

STANDARD INSTRUMENTATION: Analog: Inlet Pressure Transducer, Interstage Pressure Transducer, Discharge Pressure Transducer, Interstage Discharge Pressure RTD, Compressor Oil Pressure Transducer. OPTIONAL ANALOG INSTRUMENTATION INCLUDED: Enclosure Gas Level (%LEL). DIGITAL INSTRUMENTATION: ESD Active Dry Contact, Hi Gas Level

**ELECTRIC MOTOR**

Manufacturer: WEG Baldor or Equal / Operating Speed – 1785 rpm /NEMA, TEFC, Class 1 DIV 2 / 3-phase – 460/60 Hz

## COMPRESSOR AREA EQUIPMENT

### **COMPRESSOR EQUIPMENT BASE AREA - Included**

Compressor pad area is composed of a minimum of 12-18" concrete base (depending on compressor configuration and local building codes). The compressor equipment base area will include compressors, storage, priority panel, inlet gas dryers and gas meter assembly.

The area inside the compressor compound (around the concrete equipment pads) is finished with a surface that matches the pre-construction surroundings, i.e., asphalt, concrete, gravel, etc. By code, the compressor area must be protected by bollards or continuously connected guardrail.

### **ELECTRICAL EQUIPMENT BASE AREA - Included**

The electrical equipment will be located a minimum of 15' from the compressors and other gas-supplied equipment. The electrical area will contain the following items: Service Entrance Main Disconnect, (optional Storm Switch), Motor Starter Panel and Communications Panel for remote diagnostics.

### **COMPRESSOR AND ELECTRICAL EQUIPMENT AREA PROTECTION - Included**

When guardrail is chosen for protection posts are typically spaced 7' on center and are anchored 36" - 60" below the ground surface. Guardrail height is set at 36" above the surface level. The time-fill post will be mounted in an 18" dia. x 3' deep concrete base.

If bollards are chosen for protection, the compressor pad area will include 3' tall - 4" concrete-filled steel protective bollards anchored in an 18" diameter base, 3' in depth spaced 4' on center. The bollard is covered in a safety yellow TruStar Energy-branded plastic sleeve.

### **PRIORITY PANEL COLD WEATHER PACKAGE: Priority Panel Cold Weather Package - Included**

Cold weather package includes automatic temperature-controlled, explosion-proof heating elements internal to the priority panel.

### **FAST FILL BUFFER STORAGE PANEL: TruStar Single 1" Priority Buffer Panel - Included**

Priority buffer panel capable of dispensing CNG for fast fill, is included for high-flow capability. 1" Buffer-Valve panel includes ESD valve mounted and racked to storage in NEMA 1 Panel. Ideal for applications where average vehicle fill is more than 30 GGE/DGE. Compatible with standard & high-flow CNG nozzles that can flow up to 25 GGE per minute average 9 GGE per minute flow capacity or greater.

### **COMMUNICATIONS PACKAGE: ANGI CP400 Remote Communication Panel - Included**

ANGI CP400 Communication Panel: A full-time equipment monitoring system which includes: email and text messaging for system faults, continuous time-based logging of system operating parameters, continuous event-based logging of system events. The system provides local web server for real-time and logged data display. Provides for remote access for ANGI data collection and support via secure VPN connection. Also provides Network Address Translation [NAT] for secure interface to the customer's network.

### **COMPRESSOR ENCLOSURE HEATER: - Included: CATCO Heater - rated for cold temperatures to -10° F.**

**INLET GAS DRYER: NG SR 10 3 DDP - Included**

This PSB single vessel natural gas dryer with on-skid manual regeneration is ideal for drying natural gas for CNG stations with intermittent use. This unit will remove moisture from gas upstream of the natural gas compressor. A digital dew point meter is provided to indicate the effluent dew point confirming performance and need for regeneration. This dryer includes a pre-filter for removing dirt/aerosols and after-filter for removing desiccant dust. Includes a fully programmed PLC-based dryer control system. NEMA/NEC Electrical Construction Standard is designed to dry industry standard 7 ppm pipeline-quality natural gas.

**INLET GAS DRYER COLD WEATHER PACKAGE – Cold Weather Package Single Tower - Included**

CWP (Cold Weather Package) is available for regeneration in freezing conditions. Includes heat tracing and insulation on condensate sump/drain lines and includes PLC control panel heater.

**MOTOR STARTER PROVISION: Motor Starter - Single 200 hp - Included**

The motor starter panel is designed to perform several different custom functions within the compressor design - as well as a soft start for your electric motor. The other functions include, but are not limited to: dryer power, enclosure power, gas detection power, time-fill panel power, cooling fan power, ESD for time-fill line power, and spares for future options.

**BUFFER / CASCADE TANK STORAGE PROVISIONS – 3 37' Storage Tubes - 476 GGE - Included**

Each tube is 37'L 20" OD x 1.303" MW. Nominal water volume for three tubes is 168.9 cu.ft. Nominal CNG capacity for three tubes is 60,290 scf @ 5,500 psi. Total fuel capacity for three tubes is 476 GGE. Tubes comply with NFPA 52.4.4.5 (ASME Compliance). Includes 1" ball valves, NPT fittings, I-beam construction and vent stack.

**EMERGENCY SHUTDOWN AND FIRE EXTINGUISHERS TO MEET BUILDING CODE – Included**

Shutdowns are located at compressor area and dispenser area.

- Includes Emergency Shutdown Switch at dispenser area
- Fire Extinguisher - 5 lb./ 20 BC/model B402/B402T, 3A:40B:C/ 25-gallon water equivalent
- Safety Signs at dispenser area
- Safety Signs at dispenser area and time fill areas



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## FAST-FILL AREA AND EQUIPMENT

### FAST FILL DISPENSER PROVISION – Cabinet - **Included**

#### ANGI - Buffer - Dual Hose Low Flow (1" valve) - Dual Display

##### QTY 1

ANGI Series II Buffer Dispenser: Dual hose, NGV1 Type 1 Nozzle, 3600 (OPW CT1000). Single Bank, 1" full-ported actuated valve. Features two inlets and two meters. Two (2) LCD displays with backlight. Stainless steel enclosure and pit frame. Dispenser includes ESD push button.

#### Dispenser Fuel Island with Four Bollards – 1 **Included**

The dispenser will be mounted at a fueling island within 150' of the compressor compound area. The concrete fueling island is approximately 4' wide x 8' long and raised 6" from the surface. The dispenser island is protected by 4" diameter 3' high concrete-filled steel bollards. Each fuel island will be designed to accept up to two Class 8 trucks at one time.

#### Credit Card Reader with Printer – 1 **Included**

Includes wireless modem for IP connection, fuel management system and on-line training for public billing. Requires monthly phone plan with wireless provider. Provides real-time fueling transactions and takes all credit cards and allows for private card (customer) transactions. Comdata charges 2% for all Comdata cards. Features photo of each transaction at card reader, paperless receipts emailed to card holder at transaction time, higher transaction limits per fill on Comdata card transactions (up to \$1000.00 based on credit).

### **FURNISH AN INSTALL CONCRETE HAS BEEN REMOVED AS REQUESTED BY TOWN OF JACKSON**

#### Start Up and Commissioning- **Included**

TruStar Energy will commission the station and provide on-site training on equipment to mechanics that will include all maintenance and operations requirements. Mechanic will work with TruStar Energy trainer during start up to understand all required maintenance and operations requirements.

#### Weights and Measures – **Weights and Measures Included**



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**WARRANTY OVERVIEW**

**WARRANTY TERM**

TruStar Energy Operations/Mechanics start up training on site at Customer location for a minimum of up to four (4) days and will initiate warranty start date with equipment manufacturer. Warranty term is 12 months from CNG station startup/commissioning date.

**CONSTRUCTION AND TIME-FILL POST WARRANTY**

TruStar Energy offers a one-year warranty on station construction, time-fill posts and hard piping due to manufacturer defects and workmanship. Warranty on these items includes labor & material.

For warranty issues and clarifications related to station construction and time-fill hoses contact:

Customer Service/Warranty

TruStar Energy

10225 Philadelphia Court, Rancho Cucamonga, CA 91730

Phone 909-793-3700

Contact Mario Rocha via email: [mrocha@trustarenergy.com](mailto:mrocha@trustarenergy.com)

**COMPRESSOR EQUIPMENT WARRANTY**

ANGI compressor equipment warranty of 1 year from date of commissioning: Other equipment items may include longer warranties. Warranty on compressor, dryer, control equipment is parts only unless otherwise specified.

For warranty issues and clarifications contact:

Customer Service

ANGI International, LLC.

305 West Delavan Drive, Janesville, WI 53546

Phone 800-955-4626 / Fax 608-531-2635

Email: [service@angiinternational.com](mailto:service@angiinternational.com)

**Warranty Detail**

Construction -All construction related items	12 months from start date	Parts and Labor
Methane Detection System (Shop)	12 months from start date	Parts Only
<b>Compressor (ANGI components)</b>	<b>12 months from start date</b>	<b>Parts Only</b>
All other quoted equipment (dryers, dispensers, etc.)	12 months from start date	Parts Only
<b>Compressors (Ariel Only)</b>		
All components	12 months from start date	Parts and Labor
Cylinder bodies, Pistons, Piston Rods	24 months from start date	Parts Only
Crankshaft, Crankshaft Casting, Connecting Rods, Crossheads, Crosshead Guide Castings	36 months from start date	Parts Only
Crankshaft, Crankshaft Casting, Connecting Rods, Crossheads, Crosshead Guide Castings when maintained with 100% Ariel OEM replacement parts	72 months from start date	Parts Only
<b>Compressors (Quincy - ANGI 50) All components</b>	<b>12 months from start date</b>	<b>Parts Only</b>
<b>Sauer (All Compressor Components)</b>	<b>24 months from start date</b>	<b>Parts and Labor</b>

Warranty terms are as of Jan. 2015 and are subject to revision.



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#### Technical Assistance

ANGI shall provide technical manuals, drawings and/or instructional materials with the equipment purchased hereunder. Unless the sale is of equipment only, ANGI shall provide the services of such number of technicians as may in its sole discretion be required to assist in start-up and in training of purchasers' employees in installation, operation and maintenance of the equipment purchased hereunder. Such technicians shall be provided on an advisory basis only. Purchaser acknowledges that the technical materials supplied are proprietary to ANGI and that the goods manufactured by ANGI are based upon patents, trade secrets, confidential and proprietary information developed by, and the exclusive property of ANGI and its affiliates. For service issues contact:

Customer Service  
ANGI International, LLC.  
305 West Delavan Drive, Janesville, WI 53546  
Phone 800-955-4626 / Fax 608-531-2635 E-mail – [service@angiinternational.com](mailto:service@angiinternational.com)

ANGI Service Contact  
Tim Roach – Service Manager ANGI – Email: [Troach@angienergy.com](mailto:Troach@angienergy.com)  
Mobile Phone – 608-436-9966

TruStar Energy National Service Manager Contact – Dan Kubista  
Service and Technical support available via phone:

**Dan Kubista**  
**1928 32<sup>nd</sup> Ave. NW**  
**Rochester, MN 55901**  
**Cell: (507)440-9318**  
**[dkubista@trustarenergy.com](mailto:dkubista@trustarenergy.com)**



10/10/2016 - **Proposal No: 01060304**  
 Quote Valid until 01/08/17

**PRICING AND PAYMENT TERMS**

**Payment Schedule**

- 20% down payment with order
- Remainder to be progress billed as work is completed and equipment ships

**Qualifications:**

- Pricing is in US Dollars and is based on equipment supply
- Assuming expedited plan-check through the city and Fire Marshall, we could expect a station delivery and commissioning within 6 months from date of order
- TruStar Energy's General Conditions of Supply apply to this quotation
- Warranty is Equipment Manufacturers standard 1-year parts only warranty; labor is excluded.

We look forward to earning your valued business.

Schedule of Values	Price
Item	
<b>ENGINEERING</b>	
Design & Engineering	\$37,990.71
Permitting	\$6,750.37
<b>EQUIPMENT</b>	
Compressors	\$236,986.97
Motor Starter with soft starter, transformer	\$19,711.08
Storage Vessels – High Pressure	\$124,125.00
Remote Monitoring	\$6,444.35
Dispensers	\$46,103.24
Fast-Fill Priority Panel	\$21,584.46
Fast-Fill Items (Filters, Miscellaneous)	\$26,030.67
Inlet Gas Dryer	\$56,089.96
<b>CIVIL CONSTRUCTION</b>	
Compressor Base Area / Property Improvements, etc.	\$112,708.80
Mechanical High / Low Pressure	\$21,638.51
Electrical	\$59,800.20
Project Management	\$88,680.65
Start Up and Commissioning	\$20,411.04
Freight	\$4,500.00
Bond	\$19,883.39
<b>Optional 6 filters on a stand at priority panel</b>	<b>Not included in Price \$7,738.85</b>
<b>TOTAL PRICE WITH TAXES</b>	Nine hundred nine thousand, four hundred thirty nine Dollars and forty cents. <b>\$909,439.40</b>
Down Payment	<b>\$181,887.88</b>

**Proposal No: 01060304**

Mike Tucker  
 TruStar Sales Representative

\_\_\_\_\_   
 TruStar Sales Representative Signature

Date: \_\_\_\_\_

Town of Jackson  
 Representative

\_\_\_\_\_   
 Representative Signature

Date: \_\_\_\_\_

# SCHEDULE

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	November			January			March			May			July					
								B	E	M	B	E	M	B	E	M	B	E	M	B	E	M			
1		City of Jackson CNG Station Project	190 days	Tue 11/1/16	Mon 7/24/17																				
2		Intent to Proceed and Start Project Engineering	60 days	Tue 11/1/16	Mon 1/23/17																				
3		Site walk and project review	2 days	Tue 11/15/16	Wed 11/16/16																				
4		Meet with Local Authorities Having Jurisdiction - AHJ	1 day	Tue 11/15/16	Tue 11/15/16																				
5		Utility Coordination -Meet with Electric and Gas Suppliers	1 day	Wed 11/16/16	Wed 11/16/16																				
6		<b>Complete Detailed Project Drawings for Permitting</b>	<b>60 days</b>	<b>Tue 11/1/16</b>	<b>Mon 1/23/17</b>																				
7		<b>Equipment Order</b>	<b>125 days</b>	<b>Mon 11/28/16</b>	<b>Fri 5/19/17</b>																				
8		Order Compression Equipment	125 days	Mon 11/28/16	Fri 5/19/17																				
9		<b>Utilities</b>	<b>140 days</b>	<b>Mon 11/28/16</b>	<b>Fri 6/9/17</b>																				
10		Order Utility Service Connect	140 days	Mon 11/28/16	Fri 6/9/17																				
11		<b>Construction</b>																							
12		Site Layout for Construction	2 days	Tue 4/18/17	Wed 4/19/17																				
13		Civil Construction Demo -Parking Area Prep	4 days	Thu 4/20/17	Tue 4/25/17																				
14		Compressor area excavation	2 days	Mon 4/24/17	Tue 4/25/17																				

Project: City of Jackson WY CN  
Date: Tue 10/11/16

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			





BONDING  
AND  
INSURANCE  
INFORMATION

## **5. Bonding and Insurance**

TruStar Energy will provide bond of 125% and all necessary insurance as specified in Design and Install On-site Compressed Natural Gas (CNG) Refueling System project number....16-17  
**Please see attached letters immediately following this page.**

## **6. Compliance Statements**

- a)** TruStar Energy will seek to use Wyoming Contractors whenever possible.
- b)** TruStar Energy will use all American-made products on project 16-17. Some examples are compressors made in Mount Vernon, Ohio dryer and compressor packaging in Janesville, WI.
- c).** All hazardous products will be disposed of in an environmentally responsible manner. Recyclables will be recycled at an appropriate facility.
- d)** TruStar Energy designs and builds many projects every year. The first consideration before commencing with any construction is to understand the flow of traffic on the property. We will work to understand the best practices with regard to safety and work flow to avoid disruptions to your business. TruStar Energy is very successful in working with high vehicle-volume companies, like UPS and Chrysler, and we'll treat this project with the same careful considerations.



SMART. UNCOMPROMISING. TIMELY. EFFECTIVE. NIELSON, COLLEY & COMPANY, INC. SURETY SOLUTIONS THAT MAKE A DIFFERENCE.

Oct 11, 2016

Town of Jackson Wyoming

To Whom It May Concern,

We have the pleasure of working with TruStar Energy, LLC with regards to their bonding needs. We consider TruStar Energy, LLC to be one of our outstanding and most valued surety clients, in whom we have the highest confidence. The company has established an enviable performance record and in our opinion is properly equipped, capably staffed and well financed. TruStar Energy, LLC has been provided bonds on individual contracts in excess of \$3 million and aggregate programs in excess of \$100 million.

Aspen American Insurance Company, who carries an A. M. Best rating of A XV, enjoys the privilege of bonding TruStar Energy, LLC. Aspen American Insurance Company is listed in the Department of Treasury's Listing of Approved Sureties, and licensed to do business in the State of Kansas.

Based upon the normal and standard underwriting criteria at the time of the request, we are prepared to execute the required surety bonding for the captioned project. TruStar Energy, LLC may be bonded for each phase of the Project. This letter is not an assumption of liability; it is issued only as a bonding reference requested by our respected client.

If you should need any further information or assurances on our fine client, please feel free to contact our office.

Sincerely,

Arthur L. Colley  
Managing Partner



## Robins Insurance Agency, Inc.

30 Burton Hills Blvd. • Suite 300 • P.O. Box 150437 • Nashville, TN 37215  
Phone: (615) 665-9200 • Fax: (615) 665-9207 • E-mail: [insurance@robinsins.com](mailto:insurance@robinsins.com) • [www.robinsins.com](http://www.robinsins.com)

June 26th, 2015

TruStar Energy  
10225 Philadelphia Ct.  
Rancho Cucamonga, CA. 91730

Subject: Letter of insurability

Robins Insurance Agency, Inc. does maintain Automobile Liability, Commercial General Liability, Professional Liability, Contractors Pollution Liability insurance. Coverage is also afforded for Environmental Impairment Liability. Excess Liability does follow form over all of the above mentioned coverage lines, coverage form include:

- Additional Insured – Ongoing/Completed Operations—as required by written contract
- Transportation Pollution Liability – Blanket 3rd Party Coverage
- 1st party vehicle use, operation, loading and unloading at job sites
- Natural Resources Damage defined and covered under Property Damage
- Mental Anguish/Emotions Distress covered under Bodily Injury definition
- Emergency Response Costs (Triggered via phone call to 1-855-44-CLAIM (1-855-442-5246))
- BI/PD/Cleanup Costs for inadequate/improper supervision of subcontractors
- Damage To Your Work Amendment – Subcontractor exception

Deductibles amounts are \$5,000 per claim General Liability; \$25,000 deductible per pollution condition Contractors Pollution Liability; \$25,000 deductible per claim Professional Liability; \$0.00 deductible Environmental Impairment Liability; \$0.00 deductible Excess Liability.

We also handle Builders Risk Installation Floater coverage's as well as other misc. marine products. A Copy of our Certificate of Insurance is provided as an attachment.

Sincerely,  
Robins Insurance Agency, Inc.

A handwritten signature in black ink that reads "Karen M. Garrison".

Karen Garrison  
Account Manager, Commercial Lines Supervisor  
[kgarrison@robinsins.com](mailto:kgarrison@robinsins.com)

# GENERAL INFORMATION

Firm/Contractor will be required to provide insurance certificates meeting all requirements at the time of contract execution.

All responses, inquiries, and correspondence relating to this RFP and all reports, charts, displays, schedules, exhibits, and other documentation produced by the Respondents that are submitted to Town of Jackson, as part of the proposal or otherwise, shall become the property of Town of Jackson when received by Town of Jackson may be considered public information under applicable law.

The Town of Jackson reserves the right to cancel or modify the terms of this RFP and/or the project at any time and for any reason preceding contract award and reserves the right to accept or reject any or all proposals submitted pursuant to this request for proposals. The Town of Jackson will provide respondents written notice of any cancellation and/or modification. Furthermore, the Town of Jackson shall have the right to waive any informality or technicality in proposals received when in the best interest of the Town of Jackson.

**The following form must be filled out and submitted as part of the RFP Proposal:**

1. BY SUBMISSION OF A PROPOSAL, THE PROPOSER CERTIFIES:

- 1.1 Prices in this proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition. **TruStar Energy, LLC Complies.**
- 1.2 No attempt has been made nor will be by the proposer to induce any other person or firm to submit a proposal for the purpose of restricting competition. **TruStar Energy, LLC Complies.**
- 1.3 The person signing this proposal certifies that he/she is authorized to represent the company and is legally responsible for the decision as to the price and supporting documentation provided as a result of this advertisement. **TruStar Energy, LLC Complies.**
- 1.4 Proposer will comply with all Federal regulations, policies, guidelines and requirements. **TruStar Energy, LLC Complies.**
- 1.5 Prices in this proposal have not been knowingly disclosed by the proposer and will not be prior to award to any other proposer. **TruStar Energy, LLC Complies.**

2. GENERAL INFORMATION:

Proposer Name Mike Tucker (Sales Director TruStar Energy LLC)

Phone (253) 561-2870 Cell 909 793-3700 Office FAX (909) 793-8056

Mailing Address 10225 Philadelphia Ct.

2. GENERAL INFORMATION:

Proposer Name TruStar Energy LLC

Phone ( ) 909 793-3700 FAX ( ) 909 793-8056

Mailing Address 10225 Philadelphia Ct.

City Rancho Cucamonga State CA Zip 91730

SSN/Employer Identification Number 80-0881389

3. OWNERSHIP AND CONTROL:

Proposer's Legal Structure:

Sole Proprietorship  General Partnership

Corporation  Limited Partnership

Limited Liability  Other

If Proposer is a sole proprietorship, list:

Owner Name \_\_\_\_\_ Phone ( ) \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

SSN/Employer Identification Number \_\_\_\_\_

Beginning date as owner of sole proprietorship \_\_\_\_\_

Provide the names of all individuals authorized to sign for the Proposer:

NAME (printed or typed)

TITLE

Scott Edelbach

VP Sales, General Manager

Jeff Lucero

VP Construction

Mike Tucker

Regional Sales Manager

**VERIFICATION**

I certify under penalty of perjury, that I am a responsible official (as identified above) for the business entity described above as Proposer, that I have personally examined and am familiar with the information submitted in this disclosure and all attachments, and that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including criminal sanctions which can lead to imposition of a fine and/or imprisonment.

  
\_\_\_\_\_  
(Signature)

Mike Tucker Sales Director  
(Name and Title) (Typed or Printed)

9/17/16  
(Date)

- PERFORMANCE
- LAYOUT AND SINGLE LINE
- WARRANTY
- BROCHURES
- MAINTENANCE INTERVALS



Company: ANGI Energy  
 Quote: Q00  
 Case 1:

### Ariel Performance

Customer: TruStar Energy  
 Inquiry: Scott  
 Project: Price Sheet



#### Compressor Data:

Elevation,ft:	2500.00	Barmtr,psia:	13.400	Ambient,°F:	105.00
Frame:	JGP/2	Stroke, in:	3.00	Rod Dia, in:	1.125
Max RL Tot, lbf:	12000	Max RL Tens, lbf:	6000	Max RL Comp, lbf:	7000
Rated RPM:	1800	Rated BHP:	170.0	Rated PS FPM:	900.0
Calc RPM:	1785.0	BHP:	98	Calc PS FPM:	892.5

#### Driver Data:

Type:	Electric
Mfg:	
Model:	
BHP:	100
Avail:	100

#### Services

Gas Model

#### Service 1

Hall

#### Stage Data:

	<b>1 (SG)</b>	<b>2</b>	<b>3</b>	<b>4</b>
Target Flow, SCFM	210.000	210.000	210.000	210.000
Flow Calc, SCFM	209.892	209.892	209.885	209.885
BHP per Stage	22.6	23.8	22.8	22.8
Specific Gravity	0.5900	0.5902	0.5902	0.5902
Ratio of Sp Ht (N)	1.2807	1.2704	1.2802	1.2913
Comp Suct (Zs)	0.9941	0.9876	0.9647	0.8954
Comp Disch (Zd)	0.9933	0.9885	0.9792	1.0486
Pres Suct Line, psig	30.00	N/A	N/A	N/A
Pres Suct Flg, psig	27.00	119.32	371.73	1290.64
Pres Disch Flg, psig	123.26	380.27	1304.52	4545.13
Pres Disch Line, psig	N/A	N/A	N/A	4500.00
Pres Ratio F/F	3.383	2.966	3.422	3.496
Temp Suct, °F	60.00	125.00	125.00	125.00
Temp Clr Disch, °F	125.00	125.00	125.00	125.00

#### Cylinder Data:

	<b>Throw 2</b>	<b>Throw 2</b>	<b>Throw 1</b>	<b>Throw 1</b>
Cyl Model	8SP-HE	4-3/8SP-CE	3SG-CE	1-3/4SG-FS-HE
Cyl Bore, in	7.500	4.375	3.000	1.250
Cyl RDP (API), psig	400.0	850.0	2318.2	5545.5
Cyl MAWP, psig	440.0	935.0	2550.0	6100.0
Cyl Action	HE	CE	CE	HE
Cyl Disp, CFM	136.9	43.5	18.8	3.8
Pres Suct Intl, psig	23.65	105.15	363.43	1279.87
Temp Suct Intl, °F	67	131	130	129
Pres Disch Intl, psig	132.89	426.03	1336.35	4586.29
Temp Disch Intl, °F	252	320	320	325
HE Suct Gas Vel, FPM	9617	N/A	N/A	3050
HE Disch Gas Vel, FPM	8588	N/A	N/A	3318
HE Spcrs Used/Max	0/2	N/A	N/A	0/2
HE Vol Pkt Avail, %	No Pkt	N/A	N/A	No Pkt
Vol Pkt Used, %	No Pkt	N/A	N/A	No Pkt
HE Min Clr, %	23.56	N/A	N/A	24.00
HE Total Clr, %	23.56	N/A	N/A	24.00
CE Suct Gas Vel, FPM	N/A	11527	5116	N/A
CE Disch Gas Vel, FPM	N/A	11527	5228	N/A
CE Spcrs Used/Max	N/A	1/2	0/2	N/A
CE Min Clr, %	N/A	16.57	29.67	N/A
CE Total Clr, %	N/A	25.46	29.67	N/A
Suct Vol Eff HE/CE, %	55.5/N/A	N/A/59.4	N/A/46.2	62.7/N/A
Disch Event HE/CE, ms	4.8/N/A	N/A/6.1	N/A/5.0	5.0/N/A
Suct Pseudo-Q HE/CE	7.6/N/A	N/A/9.8	N/A/2.6	1.3/N/A
Gas Rod Ld Comp, %	51.5 C	51.5 C	79.9 C	79.9 C
Gas Rod Ld Tens, %	95.4 T	95.4 T	72.9 T	72.9 T
Gas Rod Ld Total, %	77.8	77.8	83.1	83.1
Xhd Pin Deg/%Rvrsl lbf	138/42.5	138/42.5	128/63.9	128/63.9
Flow Calc, SCFM	209.892	209.892	209.885	209.885
Cyl BHP	22.6	23.8	22.8	22.8



JEFF LUCERO  
 TRUSTAR ENERGY  
 10225 PHILADELPHIA CT  
 RANCHO CUCAMONGA, CA 91730  
 (909) 793-3700

ISSUED BY TRUSTAR ENERGY, LLC  
 \*FOR APPROVAL\* BY OUR CUSTOMER  
 CUSTOMER IS TO CHECK ONE BOX ONLY  
 APPROVED AS IS   
 APPROVED AS NOTED   
 RESUBMIT AS NOTED

CUSTOMER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

PLEASE RETURN ALL DRAWINGS TO  
 TRUSTAR ENERGY, LLC.

CONSTRUCTION DRAWINGS FOR PERMIT  
 APPROVAL WILL NOT COMMENCE UNTIL  
 WE RECIEVE FINAL APPROVAL

TOWN OF JACKSON

4000 SOUTH HWY 89  
 JACKSON, WYOMING

CNG FUELING FACILITY

CONCEPTUAL LAYOUT  
 #1 SHEET 1 OF 3

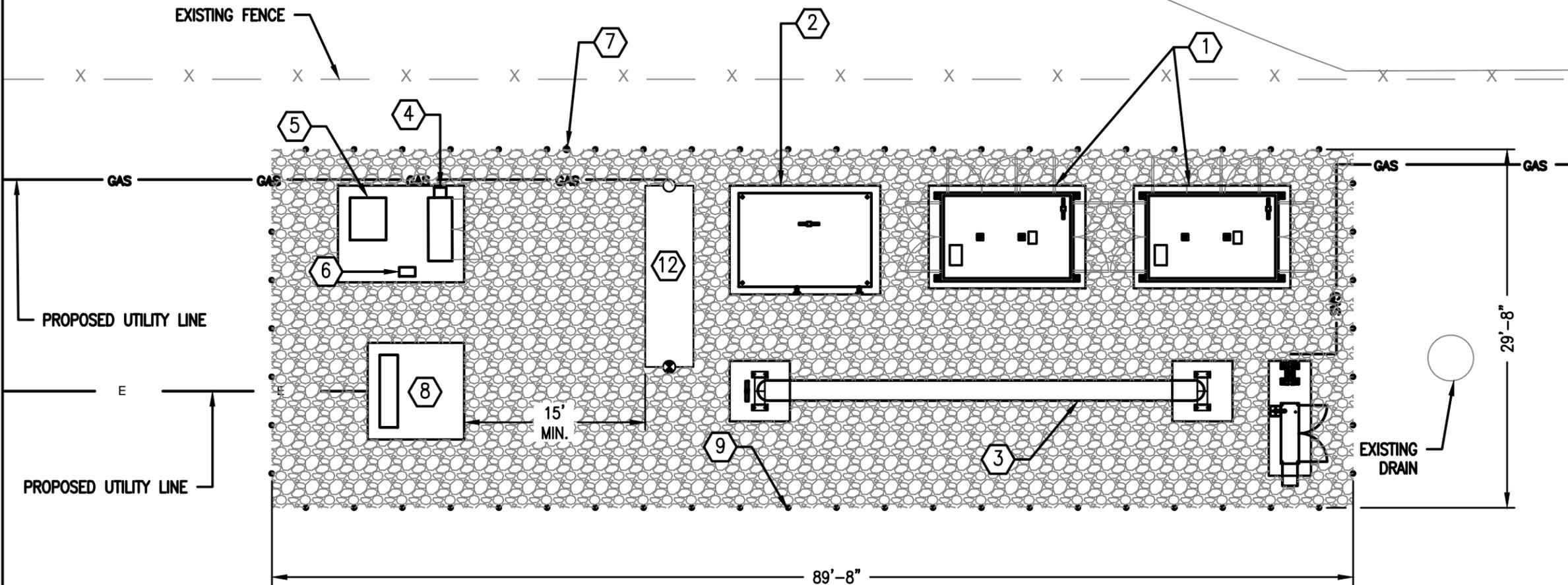
DATE PRINTED: 09/28/16



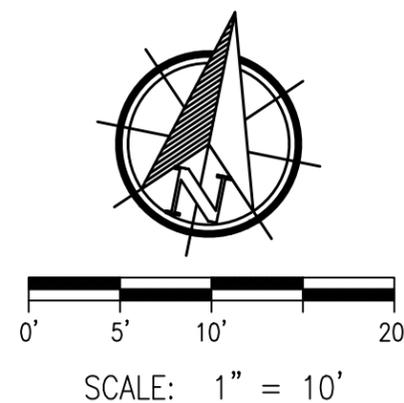
**EQUIPMENT ITEM LIST**

- |                                |   |
|--------------------------------|---|
| ① ANGI 300 COMPRESSOR - QTY 1  | ⑦ EMERGENCY SHUT-DOWN SWITCH              |
| ② NG-DRYER                     | ⑧ UTILITY TRANSFORMER                     |
| ③ ASME STORAGE BOTTLES - QTY 3 | ⑨ 4" FIXED BOLLARD - TYP                  |
| ④ DUAL MOTOR STARTER PANEL     | ⑩ CNG DUAL HOSE DISPENSER - SEE SHEET 3   |
| ⑤ MANUAL TRANSFER SWITCH       | ⑪ 6" FIXED BOLLARD - QTY. 4 - SEE SHEET 3 |
| ⑥ COMMUNICATIONS PANEL         | ⑫ UTILITY GAS METER SET ASSEMBLY          |

*Please notice there are two compressors shown here this proposal is for a single compressor*



**EQUIPMENT COMPOUND**



JEFF LUCERO  
 TRUSTAR ENERGY  
 10225 PHILADELPHIA CT  
 RANCHO CUCAMONGA, CA 91730  
 (909) 793-3700

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CUSTOMER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

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**TOWN OF JACKSON**

**4000 SOUTH HWY 89  
 JACKSON, WYOMING**

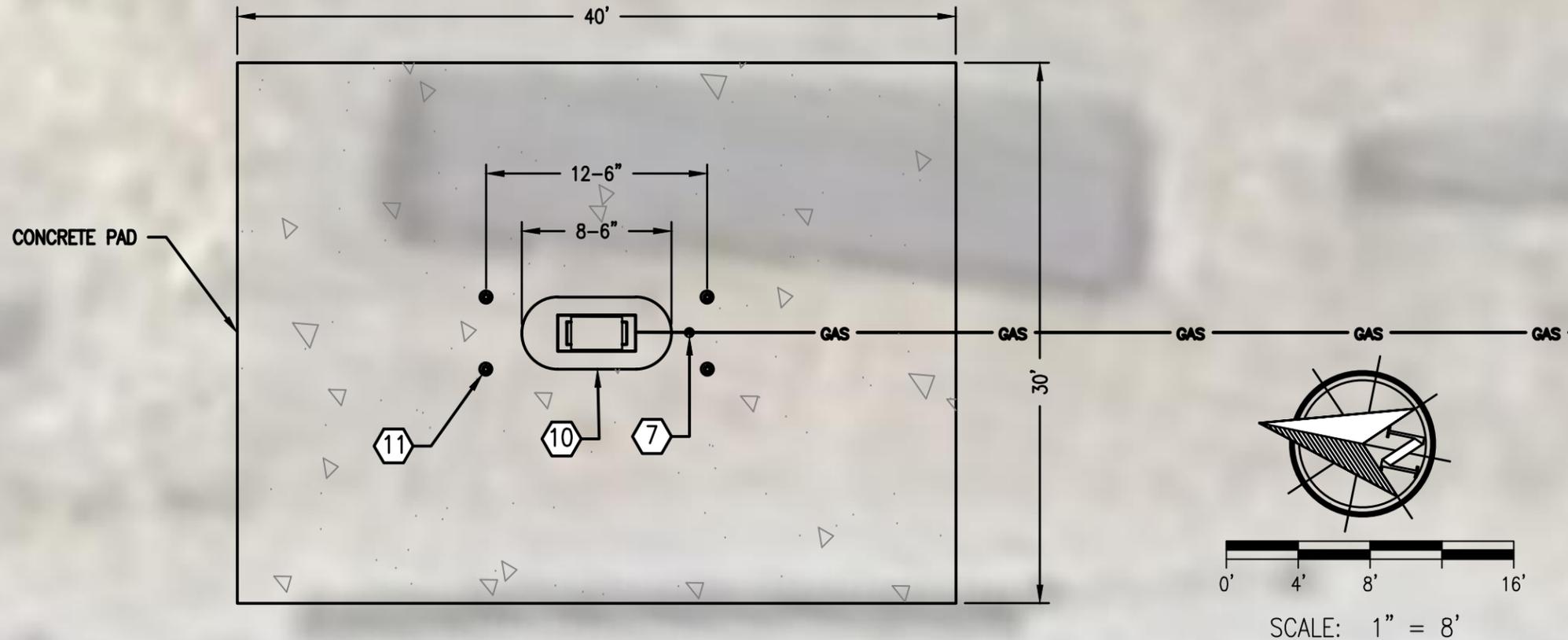
**CNG FUELING FACILITY**

**CONCEPTUAL LAYOUT  
 #1 SHEET 2 OF 3**

DATE PRINTED: 09/26/16



JEFF LUCERO  
 TRUSTAR ENERGY  
 10225 PHILADELPHIA CT  
 RANCHO CUCAMONGA, CA 91730  
 (909) 793-3700



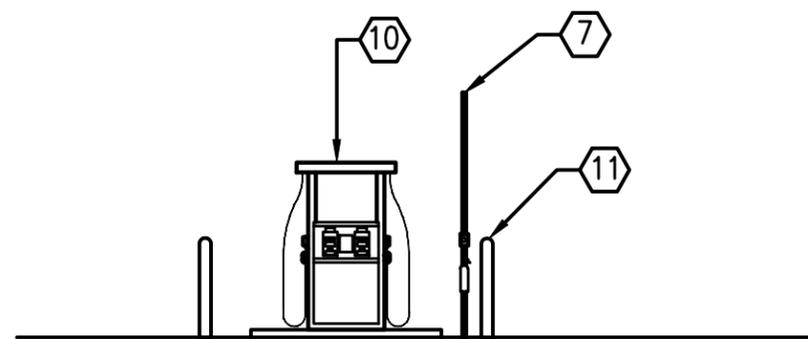
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 RESUBMIT AS NOTED

CUSTOMER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

PLEASE RETURN ALL DRAWINGS TO  
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 WE RECIEVE FINAL APPROVAL

FAST-FILL AREA



FAST-FILL AREA  
 NORTH WEST ELEVATION

TOWN OF JACKSON

4000 SOUTH HWY 89  
 JACKSON, WYOMING

CNG FUELING FACILITY

CONCEPTUAL LAYOUT  
 #1 SHEET 3 OF 3

DATE PRINTED: 09/26/16



No.:

Date: 16-FEB-2016

## DATA SHEET

### Three-phase induction motor - Squirrel cage rotor

Customer :  
Product line : W22 NEMA Premium - Ball Bearings

Frame : 445/7T  
Output : 200 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1780  
Slip : 1.11 %  
Voltage : 208-230/460 V  
Rated current : 509-460/230 A  
Locked rotor current : 2900/1450 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.3  
No-load current : 140/70.0 A  
Full load torque : 582 lb.ft  
Locked rotor torque : 220 %  
Breakdown torque : 250 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 16 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 2095 lb  
Moment of inertia : 76.217 sq.ft.lb  
Noise level : 73 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6319 C3	6316 C3	100%	0.85	96.2
Regreasing interval	8000 h	10000 h	75%	0.82	96.2
Grease amount	45 g	34 g	50%	0.73	95.8

Notes:

Performed by

Checked

# TruStar Energy Warranty Process for OEM CNG Equipment Items

**Step 1 -File Claim**  
Call (844)226-0256

**Step 2 – RMA (Return Material Authorization) Number and Job Number Created- Warranty paper work sent to customer. TruStar will file warranty to OEM on behalf of customer while under service contract**

**Step 3 – Customer may elect to order a replacement part which will be processed as a sales order while the warranty part is being reviewed for warranty. The customer has the option to skip this part and move to step 4. TruStar will replace failed part while under service contract and automatically order a new part**

**Step 4-** Customer to attach RMA Number to Part and ship to the OEM/Address on the warranty ticket for warranty review.. TruStar will ship warranty part to OEM on behalf of customer while under service contract

**Step 5 –** When part is deemed warrantable, the OEM will provide credit against the part or ship a new part for replacement. TruStar will receive credit or part on behalf of customer while under service contract and close RMA and Job Number

**Step 6 –**In the event the part is denied as warrantable from the OEM the original invoiced part will be processed and the customer will pay for the part that was purchased. The RMA and Job Number will be closed

# TruStar Energy Warranty Process for CNG Station Construction Items

**Step 1** -File Claim  
Call (844)226-0256

**Step 2** – RMA (Return Material Authorization) Number and Job Number Created- Warranty paper work sent to customer. TruStar will file warranty on behalf of customer while under service contract

**Step 3** – TruStar Warranty Representative will visit site to review claim with customer to determine whether it is warrantable on non warrantable

**Step 4**– TruStar will schedule corrective action/replacement/repair of warrantable item and restore to required specification. If item is not warrantable, the customer can determine if they would like TruStar to correct the item or use a different party to correct the item.

**Step 5** –The RMA and Job Number will be closed



## WARRANTY

ANGI hereby warrants that the EQUIPMENT sold hereunder shall be free of defects in material and workmanship appearing within 12 months from the date the EQUIPMENT is placed into service or 18 months from the date the GOODS are available to be shipped; whichever comes first. PURCHASER must give written notice of any defect covered by this warranty to ANGI within the warranty period. For any defect covered by this warranty, ANGI shall repair or replace the EQUIPMENT. Repairs or replacement parts are warranted for 90 days from the date that the repaired or replaced EQUIPMENT OR GOODS are shipped from the factory or until termination of the original warranty, whichever is longer. This warranty does not cover labor costs and other contingent expenses for the diagnosis of defects or for removal and reinstallation of the EQUIPMENT. Such repair or replacement shall be PURCHASER's sole and exclusive remedy for ANGI's breach of this AGREEMENT.

This warranty does not extend to any GOODS or EQUIPMENT which have been (a) subject to misuse, neglect, accidents, acts of God, or causes of a similar nature; (b) repaired or altered by anyone other than ANGI, without ANGI's prior approval; (c) improperly installed by anyone other than ANGI or someone under its direction or (d) to consumable parts or materials such as filter elements, seals, belts, or fuses, or (e) damage resulting from overloading the GOODS or EQUIPMENT. This warranty does not extend to nor does ANGI provide any warranty to components such as motors and drive engines that are separately covered by a warranty issued by their respective manufacturers. ANGI shall transfer or pass through to PURCHASER any such warranties received by ANGI. This warranty is in lieu of all other warranties expressed or implied.

**EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, THIS IS THE ONLY WARRANTY GIVEN FOR THE SALE OF GOODS, EQUIPMENT AND/ OR SERVICES. NO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE SHALL APPLY. IN NO EVENT SHALL ANGI BE LIABLE FOR CONSEQUENTIAL, SPECIAL, INDIRECT, PUNITIVE, OR INCIDENTAL DAMAGES RESULTING FROM THE PURCHASE OR USE OF ANGI EQUIPMENT, GOODS, AND/OR SERVICES RESULTING FROM ANY DELAYS OR FAILURE OF PERFORMANCE OF ANGI UNDER ANY AGREEMENT BETWEEN ANGI AND PURCHASER, OR RESULTING FROM ANY SERVICES FURNISHED BY ANGI.**

This warranty may not be modified, amended, or otherwise changed except by a written document properly executed by ANGI.

*For warranty issues contact:*

Customer Service  
**ANGI Energy Systems, Inc.**  
305 W. Delavan Drive  
Janesville, WI 53546  
Phone: 800-934-5219  
Fax: 608-531-2635  
E-mail: [service@angienergy.com](mailto:service@angienergy.com)  
Website: [www.angienergy.com](http://www.angienergy.com).



## **ARIEL LIMITED WARRANTY SUMMARY**

### **Limited Warranty**

Ariel warrants that the Products manufactured by it and delivered hereunder will be free of defects in material and workmanship for a period of twelve (12) months from the date the goods are placed in use or eighteen (18) months from date of shipment, whichever event shall first occur.

In addition, Ariel warrants for a period of thirty-six (36) months after delivery, the following parts to be free from defects in material or workmanship under normal use when properly maintained: (1) Crankshaft, (2) Crankcase Casting, (3) Connecting Rods, (4) Crossheads, (5) Crosshead Guide Castings.

**ARIEL MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED, EXCEPT HEREINAFTER EXPRESSLY PROVIDED.**

**IN NO EVENT SHALL ARIEL BE RESPONSIBLE FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT, SPECIAL, PUNITIVE OR OTHER NON-COMPENSATORY DAMAGES. ARIEL'S SOLE LIABILITY WITH RESPECT TO THE PRODUCTS SHALL BE TO, AT ARIEL'S ELECTION, REPAIR THE PRODUCT OR RETURN THE PURCHASE PRICE THEREOF.**

### **Extended Warranty**

Effective for all units shipped from Ariel after January 1, 2003, Ariel provides an extended warranty for units that continuously use and maintain 100% Ariel original equipment replacement parts. The extended warranty will be applied as follows:

Ariel warrants for a period of seventy two (72) months after delivery, the following parts to be free from defects in material or workmanship under normal use when properly maintained: (1) Crankshaft, (2) Crankcase Casting, (3) Connecting Rods, (4) Crossheads, (5) Crosshead Guide Castings.

In addition, Ariel warrants for a period of twenty four (24) months after delivery, the following parts to be free from defects in material or workmanship under normal use in lubricated and non-lubricated cylinders when properly maintained: (1) Cylinder Bodies, (2) Pistons, (3) Piston Rods.

Ariel warrants that all remaining components manufactured or delivered by Ariel will be free of defects in material and workmanship for a period of twelve (12) months from the date the goods are placed in use by the Distributor or eighteen (18) months from date of shipment, whichever event shall first occur. Labor coverage remains at one year. If at any time parts not manufactured or delivered by Ariel (non-OEM replacement parts) are placed into service on the compressor, the extended warranty will be null and void and the standard limited warranty will apply.

OEM parts and additional information regarding Ariel's limited warranty can be obtained from an authorized Ariel distributor.

April 14, 2009

# NG 300 Service & PM Schedule

## 1000 Hours

Post Compression Coalescing Filter Element Replacement

## 2000 Hours

Post Compression Coalescing Filter Element Replacement

Compressor Frame Oil Replacement (Crankcase Oil)

Compressor Frame Oil Filter 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 Hours

Post Compression Coalescing Filter Element Replacement

## 4000 Hours

Post Compression Coalescing Filter Element Replacement

Compressor Frame Oil Replacement (Crankcase Oil)

Compressor Frame Oil Filter Replacement (Crankcase Oil Filter)

Compressor Oil Strainer Element Cleaning

Compressor Interstage Coalescing Filter Element Replacement

Force Feed Lubricator Box Lube Oil Replacement

Force Feed Lubricator Filter Replacement

Compressor Valves (Rebuild OR Replace)

Measure & Record All Internal Critical Clearances (Per Ariel Specifications)

(Replace Any Out Of Spec Parts!!)

Compressor Piston Ring/Rider Band Replacement

Compressor Packing Rebuild OR Replacement

Check All Compressor Critical Fasteners for Proper Torque (ie. nozzles, valve caps, heads, packing cases, etc)

Compressor Soft foot Measure & Record (Correct If Needed Per Ariel Spec)

Compressor To Diver Alignment Measure & Record (Correct If Needed Per Ariel Spec)

Driver Motor Lubrication (Grease Bearings Per Manufactures Recommendations)

### **5000 Hours**

Post Compression Coalescing Filter Element Replacement

### **6000 Hours**

Post Compression Coalescing Filter Element Replacement

Compressor Frame Oil Replacement (Crankcase Oil)

Compressor Frame Oil Filter 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)

### **7000 Hours**

Post Compression Coalescing Filter Element Replacement

## **8000 Hours**

Post Compression Coalescing Filter Element Replacement

Compressor Frame Oil Replacement (Crankcase Oil)

Compressor Frame Oil Filter Replacement (Crankcase Oil Filter)

Compressor Oil Strainer Element Cleaning

Compressor Interstage Coalescing Filter Element Replacement

Force Feed Lubricator Box Lube Oil Replacement

Force Feed Lubricator Pump Replacement

Inspect Force Feed Lube Pump Cam for Wear

(Replace Lube Box and Cam Assembly if Cam Has a Roller Groove Worn Into It)

Force Feed Divider Valve Replacement

Force Feed Lubricator Filter Replacement

Compressor Valves (Rebuild OR Replace)

Measure & Record All Internal Critical Clearances (Per Ariel Specifications)

(Replace Any Out Of Spec Parts!!)

Compressor Piston Ring/Rider Band Replacement

Compressor Packing Rebuild OR Replacement

Compressor Soft foot Measure & Record (Correct If Needed Per Ariel Spec)

Compressor To Diver Alignment Measure & Record (Correct If Needed Per Ariel Spec)

Driver Motor Lubrication (Grease Bearings Per Manufactures Recommendations)



# SERIES II CNG DISPENSER

ANGI'S proven and innovative CNG dispensing technology offers various high quality dispensing options for single or dual hose applications. The dispenser's software provides independent cascade fueling control for each hose, large LCD display of volume and costing, and is designed for fast, safe, and accurate fuel flow.

## Typical Specifications

### Key Features & Benefits

- > Temperature compensated fills to 3,600 psig @ 70°F
- > ANGI's proprietary Series II internal microprocessor controller
- > Micro Motion CNG050 Coriolis flow meter(s)
- > Integrates with common card management systems
- > Easy-to-read 3-Line back-lit LCD display
- > Corrosion resistant stainless steel cabinet
- > Designed for Class I Division 1 and 2 locations
- > Basic system designed for optimization of fill for light and medium duty vehicles with optional heavy duty capabilities
- > Single or Dual hose configuration
- > Manual shut-off valve—one per hose
- > Customer interface accessibility ADA requirements
- > Reliable full-ported actuated sequencing ball valves for positive fuel shut-off and maximum flow rates
- > Factory tested per ASME B31.3
- > ½" or 1" internal stainless steel tubing construction conforming to ASTM A-269
- > Internal coalescing filtration

### Optional Features

- > Remote monitoring and error alert system
- > Optional nozzle manufacturers:
  - OPW
  - Staubli
  - WEH

- > 3,000 psig nozzle
- > Hose Retractor
- > Emergency stop push-button
- > Vibration switch
- > Instrument air connection for valve actuators
- > CRN components and ULC rating as required for Canadian installations
- > ANGI preventative maintenance service contracts available

### Models Available

- > Single And Dual Hose Retail Dispenser
- > Single And Dual Hose Fleet Dispenser
- > Single And Dual Hose Transit Dispenser

### Standard Operating Conditions

Power Requirement: 3 amps @ 120V/1Ph/60Hz

Area Classification: Class I Division 1 / Group C & D areas

Unit of Measure: GGE (Gasoline Gallon Equivalent)

### Compliance And Certifications

NFPA 52, NFPA 70 (NEC), ANSI/IAS NGV 4.1, CSA 12.5 NGV Dispensing systems

MET Laboratories, Inc. Certified

National Conference on Weights and Measures NTEP Certificate of Conformance



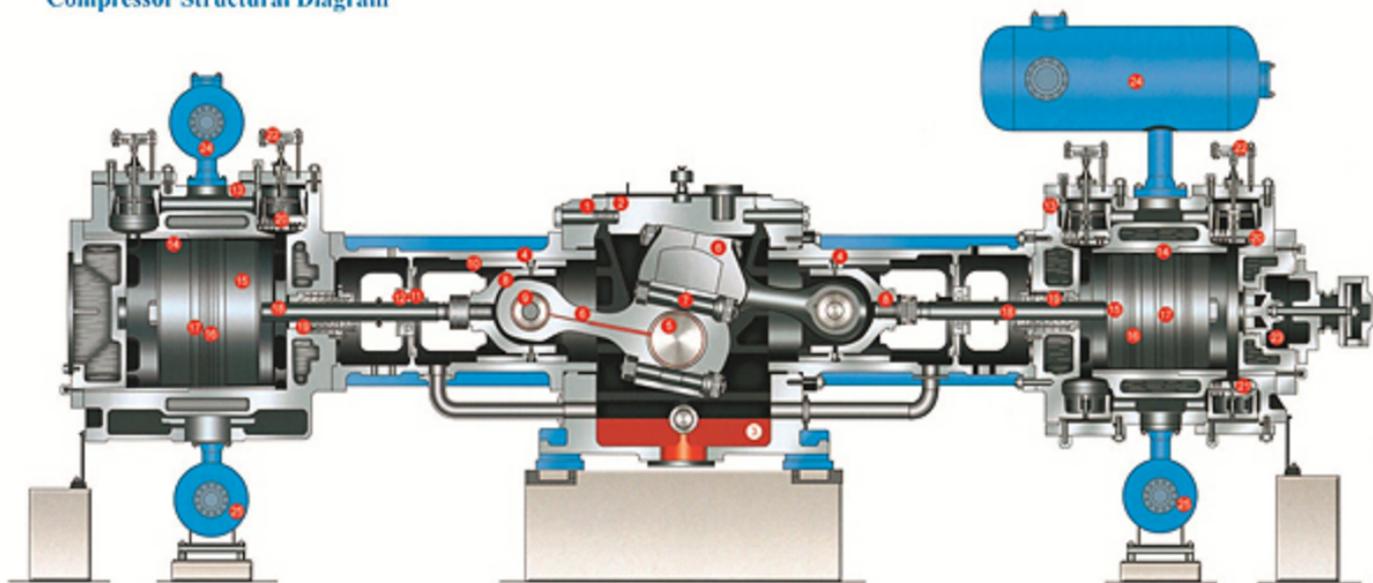
MADE WITH PRIDE  
IN THE USA.



p 800 955 4626 w [angienergy.com](http://angienergy.com) e [sales@angienergy.com](mailto:sales@angienergy.com)

P.O. Box 5216 Janesville, WI USA 53547-5216

## Compressor Structural Diagram



### Main Parts

- |                      |                     |                    |                        |                            |
|----------------------|---------------------|--------------------|------------------------|----------------------------|
| 1. Frame(Crank Case) | 6. Connecting rod   | 11. Oil wiper ring | 16. Piston ring        | 21. Discharge valve        |
| 2. Tie rod           | 7. Big end bolt     | 12. Seal ring      | 17. Rider ring         | 22. Suction valve unloader |
| 3. Lubricating oil   | 8. Crosshead        | 13. Cylinder       | 18. Piston rod         | 23. Clearance pocket       |
| 4. Crosshead guide   | 9. Crosshead pin    | 14. Cylinder liner | 19. Piston rod packing | 24. Inlet buffer           |
| 5. CrankShaft        | 10. Crosshead slide | 15. Piston         | 20. Suction valve      | 25. Outlet buffer          |



Creating Value By Delivering Energy Economically





For over 25 years,  
 ANGI Energy Systems  
 have provided clients with  
 innovative systems that  
 deliver economic energy.

In keeping with our mission,  
 we design reliable CNG  
 equipment with the lowest  
 overall life-cycle costs in the  
 industry and we provide  
 superior customer service.

**CUSTOM DESIGNED SYSTEMS**

System performance is predicted and validated using proprietary application software

Compressor performance documents available

Advanced controls solutions and integration

Distributed control systems

Embedded control solutions

Graphical touch interfaces

Remote monitoring systems

Fuel management integration

Defueling assemblies

Site permitting and design

**TECHNICAL SERVICES**

Turnkey installations

Construction support and site development

Project management and engineering services

Comprehensive classroom training program

Service maintenance contracts available

Emergency service

Remote station monitoring

Equipment upgrade services

Standards and codes development services

Knowledgeable parts department

***ANGI Energy Systems has over 800 successful CNG installations worldwide.***



**NG50E**

50 and 75 scfm (85/125 Nm<sup>3</sup>/hr)  
 Electric motor driven  
 ANGI model 50/75 compressor  
 4 stage compression  
 Compact skid design



**NG150E**

Up To 750 scfm (1280 Nm<sup>3</sup>/hr)  
 Electric motor driven  
 Ariel JGM/2, JGP/2, JGN/2, or JGQ/2 compressor  
 Available in 2, 3, or 4 stage configurations  
 Conventional or daughter station designs



**NG250E**

Up To 1000 scfm (1700 Nm<sup>3</sup>/hr)  
 Electric motor driven  
 Ariel JGM/2, JGP/2, JGN/2, or JGQ/2 compressor  
 Available in 2, 3, or 4 stage configurations  
 Conventional or daughter station designs



**NGSC300E (or G)**

Up To 1200 scfm (2050 Nm<sup>3</sup>/hr)  
 Electric motor driven or natural gas engine  
 Rotary oil-flooded screw compression for first stage; Ariel reciprocating compression for additional stages  
 Conventional or mother station designs



**NG600E (or G)**

Up To 3000 scfm (5100 Nm<sup>3</sup>/hr)  
 Electric motor driven or natural gas engine  
 Ariel JG/4, JGA/4, or JGA/6 compressor  
 Available in 3, 4, or 5 stage configurations  
 Conventional or mother station designs



**NGSB600E (or G)**

Up To 4000 scfm (6860 Nm<sup>3</sup>/hr)  
 Electric motor driven or natural gas engine  
 Rotary oil-flooded screw compression  
 Custom designs for low pressure inlet applications

**ANGI COMPRESSORS**

ANGI's compressor stations range from 50 scfm up to 3000 scfm. They all feature: Modular design for site integration and on-skid PLC controls; Optional sound attenuated enclosures are available for outdoor weather-proof protection; and Custom designs can integrate dryer, storage, and dispensers on skid.



**Ariel Corporation** sets the world standard for separable, reciprocating gas compressors. Their CNG compressors are designed to achieve a long service life for piston rings, gland packings, and cylinders. The heavy-duty compressor frame conforms to API-11P guidelines with few exceptions, and has an estimated life exceeding 20 years. *ANGI Energy Systems* is a proud packager of Ariel compressors in nearly all their stations.

## Dispensers



### DISPENSING PRODUCTS

ANGI offers various high quality dispensing options for single or dual hose applications. The dispenser's software provides independent sequence functions for each hose. Each dispenser offers accurate mass flow metering, electronic sequencing valves, large LCD display of volume and costing, and an easy-to-use operator interface keypad.

### Features

- Single and dual hose designs
- One, two, or three bank sequencing
- Coriolis mass flow metering
- Internal microprocessor controller
- Electronic temperature compensation and sequencing
- NGV1 Type 1 or Type 2 nozzles
- Certified for Weights and Measures
- High flow transit dispensers available

### FUEL MANAGEMENT

- Prevents unauthorized use
- Credit card payment capabilities
- Inventory control

## Dryers



### INLET GAS DRYERS

- Custom designed and engineered
- Molecular sieve drying agent
- Dew-point detection available
- Non-regenerating dryers
- Regenerating dryers
- Fully automatic regenerating dryers

## System Components



### STORAGE VESSELS

- ASME vessels (up to 5,000 psig)
- DOT vessels (up to 3,600 psig)
- Various vessel sizes and spheres available
- Designed for seismic applications

### PRIORITY PANELS

- Electric or pneumatic valves
- Integrated ESD valves
- Custom designs

### MOTOR CONTROL CENTER

- Custom designed and engineered
- Solid-state starters for the main drive
- Housed in a NEMA rated steel enclosures

### DEFUELING ASSEMBLIES

- Safely depressorizes vehicles
- Transfers fuel to storage vessels
- Transfers fuel between vehicles

### CONTROLS

- Distributed control systems
- Pre-engineered unit and master control panels
- PLC and embedded system designs
- Developed and supported by in house design team
- High degree of connectivity with SCADA systems

## Time Fill Systems



### HOSE POLES

ANGI offers time fill hose pole assemblies in single and dual hose configurations. Time fill allows vehicles to conveniently refuel overnight or when vehicles are not in use. This cost effective refueling option is temperature compensated and operates through a valve controlled time fill panel.

## Service Commitments



### ENGINEERING SERVICES AND QUALITY

ANGI has been supplying engineering services and fueling equipment to the CNG industry since 1983. The design staff is supported by a highly trained, vastly experienced professional engineering team. They are ready to design, engineer, and manufacture your refueling system. You can be assured you are getting the most reliable CNG system available, designed with the highest level of integrity.

ANGI's Quality Management System is ISO9001:2000 certified. This is the worldwide federation of quality standards for more than 125 countries.





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[www.angienergy.com](http://www.angienergy.com)

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**Creating Value By Delivering  
Energy Economically**



# CNG COMPRESSORS



For Vehicle Refueling



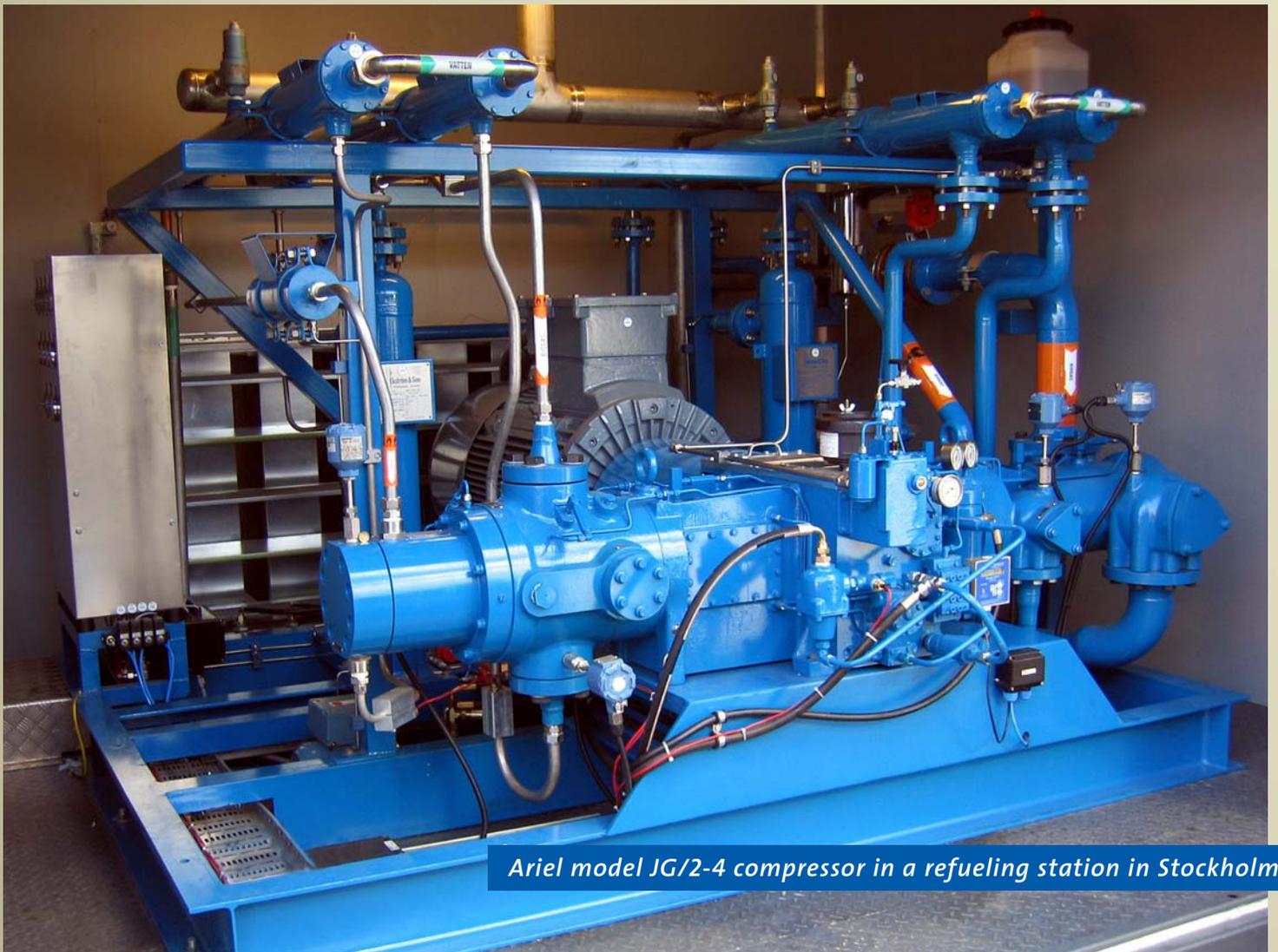
## ARIEL RELIABILITY

Ariel is the largest manufacturer of separable gas compressors in the world and sets the standard in quality, reliability, and customer support. Ariel's CNG compressors are derived from the same designs that are used in field gas, process, and transmission services, intended to run 24 hours a day, 365 days a year. This experience makes the Ariel compressor one of the most robust, continuous duty rated compressors in the CNG market.

Ariel separable gas compressors are in service in CNG stations around the globe. From Europe to Asia and in the Americas, Ariel has built a reputation for safe, rugged, long-lasting compressors and cylinders.



*Ariel compressors in a fleet refueling station in Ukraine*



*Ariel model JG/2-4 compressor in a refueling station in Stockholm*

# ARIEL CNG COMPRESSORS

**Maximum Efficiency** – A choice of stroke lengths allow Ariel compressors to be operated at the rated RPM of the driver to maximize efficiency, reduce maintenance, and lower energy costs.

**Large Pressure Range** – Many sizes of double acting and single acting cylinders give Ariel the ability to operate efficiently with suction pressures ranging from a slight vacuum to more than 750 psi (52+ bar). Normally configured in two to five stages, Ariel CNG compressors are used in refueling services to 4,500+ psi (310+ bar).

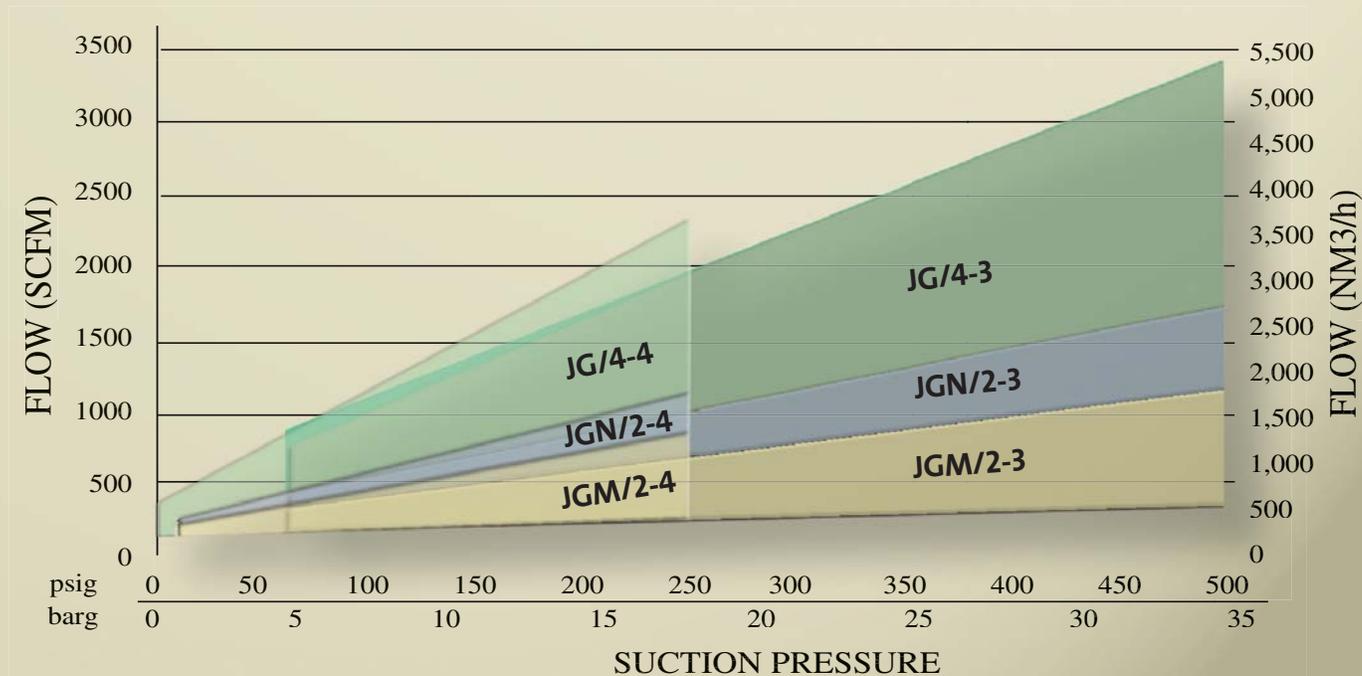
**Large Coverage Range** – Typically, Ariel compressors are used in CNG services flowing from 125 (200) to 1,250 SCFM (2,000+ Nm<sup>3</sup>/h). Ariel compressors are currently running in CNG applications from 50 bhp (37 Kw) to more than 1,200 bhp (895 Kw).

**Low Maintenance** – High pressure, forged steel cylinders with ion-nitride hardened bores and piston rods, combined with PEEK high-pressure piston rings result in less maintenance and more efficient long-term operation. In addition, Ariel compressors are designed with component accessibility and service in mind to reduce maintenance time and expenses.

**Smooth Quiet Operation** – A balanced-opposed compressor design with a fully enclosed auxiliary drive assures quiet, virtually vibration-free operation.

**Package Quality and Versatility** – Packaged to meet your specifications, exclusively by Ariel CNG Distributors, compressor quality is assured by Ariel's Packagers' Standards. For a complete list of Ariel CNG packagers, please go to our web site at [www.arielcorp.com/distributors/cng.htm](http://www.arielcorp.com/distributors/cng.htm).

## ARIEL FRAME OPERATING RANGES



KEY: ARIEL FRAME/THROWS - STAGES  
Discharge pressure 3,625 psig (250 barg)



*Assembly area in our Mount Vernon, Ohio plant*



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**24 HOUR SUPPORT**  
Field Service: 740.397.0311

**ARIEL RESPONSE CENTER • SPARE PARTS**  
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