Providing Energy Savings for Green Construction

5 ENERGY
A 5 Starr Energy Corporation

3-24-14
To Supervisor please prepare a response from you - cc me Thanks Lois

Friday, March 14, 2014

California Energy Commission
Office of the Executive Director
1516 9th Street, MS-39
Sacramento, CA 95814-5512

RE: Woolley Residence

To the Executive Director: I am filing a petition for reconsideration of the notice of cancellation of this project. We are enclosing a time line of events as to what happened from when we received the project.

We received the NSHP application the end of November but the last of the documentation we needed for submittal was received on December 17, 2013. We finished the CF-1R-PV on Dec. 19, 2013 and on Dec. 20th tried to up load everything to the web-tool. The web-tool would only let a start be made but all docs were unable to be uploaded. Brandy and Kim tried again on Monday the 23rd with the same results and then found out that everything went off line on Dec. 24th. The girls kept checking back everyday to upload the project and finally on Jan. 9th were able to upload the web-tool. We were told that we should have mailed the project but from our previous experience in dealing with PG&E mailing in projects was never an option. Al we are asking is if you can review this project and help us out.

Thank you for your consideration of this matter.

3-14-2014
Adrian Starr – CEO

835 Remor Street ◆ Redding, CA 96002 ◆ Phone 530.275.3350 ◆ Fax 530.275.3352

ww.5starrenergy.com

Providing Energy Savings for Green Construction

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3-24-14
To Supervisor please prepare a response from you - cc me Thanks Bob

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3-14-2014
Adrian Starr – CEO

RECEIVED
MAR 21 2014
EXECUTIVE DIRECTOR

835 Remor Street ◆ Redding, CA 96002 ◆ Phone 530.275.3350 ◆ Fax 530.275.3352

Gmail

RE: Questions

Kimberly Barber <energytesting@hotmail.com> Mon, Feb 3, 2014 at 12:53 PM
To: "Nasim, Farakh@Energy" <farakh.nasim@energy.ca.gov>, "brandy@5starrenergy.com" <brandy@5starrenergy.com>

Thanks for that, I have a question, I don't know if you are even the one to ask these questions. So do the projects that we had ready to submit all of a sudden get disqualified because things changed Jan 1, ? We work on getting all the documents together and now I have one that is being cancelled because we submitted it Jan 9, and there were 2 weeks there where we couldn't submit. I know I've bent LeQuyen's ear and I appoligize for venting. But now there is a whole new group of people working with these projects and it seems like more confusion then before. Who can we talk to. No one wants to talk on the phone. Who is the supervisor of that department. ?

Kimberly Barber
1st Stop Energy Consulting & Testing
530-365-4777- 1stopenergy.com
Energy Consultant/HERS Rater/Solar rebate Facilitator

From: Farakh.Nasim@energy.ca.gov
To: energytesting@hotmail.com
Subject: RE: Webtool maintenance
Date: Mon, 3 Feb 2014 20:03:01 +0000

Hello Kim,

The webtool was taken offline on December 24 to incorporate changes from the newly adopted 7th edition of the NSHP Guidebook. It was placed back online on January 6.

Thank you,

Farakh Nasim

California Energy Commission

916-654-4689

From: Kimberly Barber [mailto:energytesting@hotmail.com]
Sent: Monday, February 03, 2014 11:50 AM
To: Nasim, Farakh@Energy
Subject: Webtool maintenance

Hi Farakh,

Can you tell me what the date the webtool was down for maintenance , I know if was last part of Dec until first part of January. But I need dates please.

Thanks

Kimberly Barber

1st Stop Energy Consulting & Testing

530-365-4777- 1stopenergy.com

Energy Consultant/HERS Rater/Solar rebate Facilitator

Nasim, Farakh@Energy <Farakh.Nasim@energy.ca.gov> Mon, Feb 3, 2014 at 2:11 PM
To: Kimberly Barber <energytesting@hotmail.com>, "brandy@5starrenergy.com" <brandy@5starrenergy.com>

Hi Kimberly,

Can you please forward the disapproval email that you received from the Program Administrator. I can review it to see why the project was disapproved and will let you know if I can do anything to help change the project status.

The webtool website did have a notice posted that said the webtool was going to be unavailable beginning on December 24, but applicants were allowed to mail in their project submittals and if everything was submitted properly, the project would fall under the requirements of the 6th edition of the NSHP Guidebook.

The 7th Edition of the NSHP Guidebook was adopted on December 11, but did not become effective until January 1 which gave applicants an extra three week window to submit applications under the old guidebook requirements. This additional time was new for this Guidebook update, because in the past the new Guidebook requirements always became effective on the day the Guidebook was adopted, thus forcing all in-process applications to immediately meet a new set of requirements.

Feel free to call me if you have any other questions about the NSHP process.

Thank you,

Farakh Nasim
California Energy Commission

916-654-4689

From: Kimberly Barber [mailto:energytesting@hotmail.com]
Sent: Monday, February 03, 2014 12:54 PM
To: Nasim, Farakh@Energy; brandy@5starrenergy.com
Subject: RE: Questions

[Quoted text hidden]

Re: Woolley Residence

From: **United Sun Energy** (jdausman@unitedsunenergy.com) This sender is in your safe list.
Sent: Wed 12/11/13 4:49 PM
To: Kimberly Barber (energytesting@hotmail.com)

Yes could you call him. 5305185386

Thanks,

John Dausman
Sales Executive, United Sun Energy
Phone 530-966-8106

On Dec 11, 2013, at 4:27 PM, Kimberly Barber <energytesting@hotmail.com> wrote:

Hey John,
I just wanted to make sure it is Affordable Heating and Air that installed the HVAC equipment in this home. I cant find online an exact match in name for this company. And I have left several phone messages for the company I did find. This might not be your department, would it be better to ask Rick Denny?

Brandy Calandrelli

Kimberly Barber
Energy Consultant/HERS Rater/Solar rebate Facilitator

From: jdausman@unitedsunenergy.com
Subject: Woolley Residence
Date: Thu, 5 Dec 2013 21:22:40 -0800
To: rgrattidge@unitedsunenergy.com; energytesting@hotmail.com

Here are the Woolley's forms again. I want to make sure we all have their docs. Please let

me know if you guys are unable to read or verify any info.

Thanks,

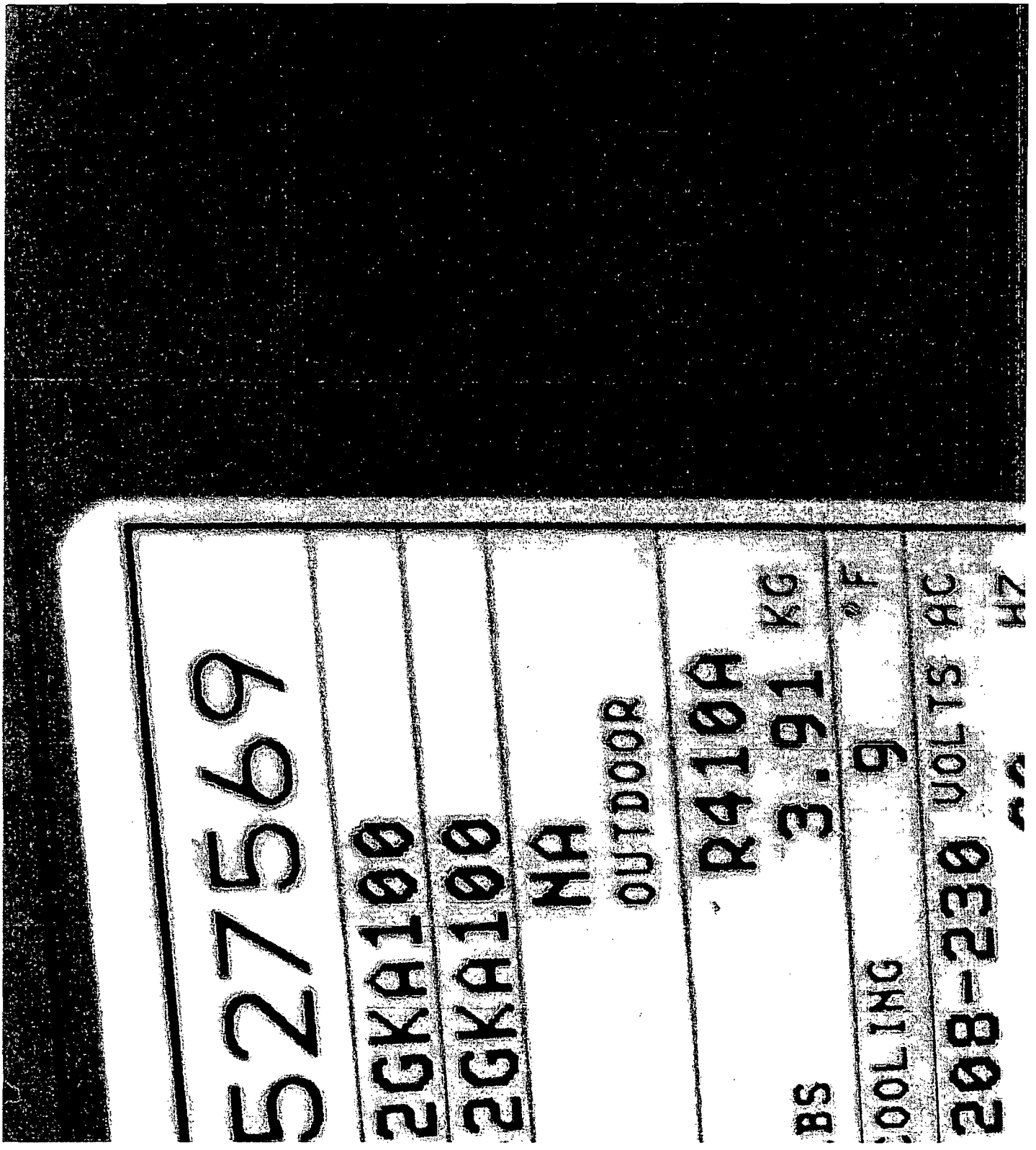
John Dausman
Sales Executive, United Sun Energy
Phone 530-966-8106

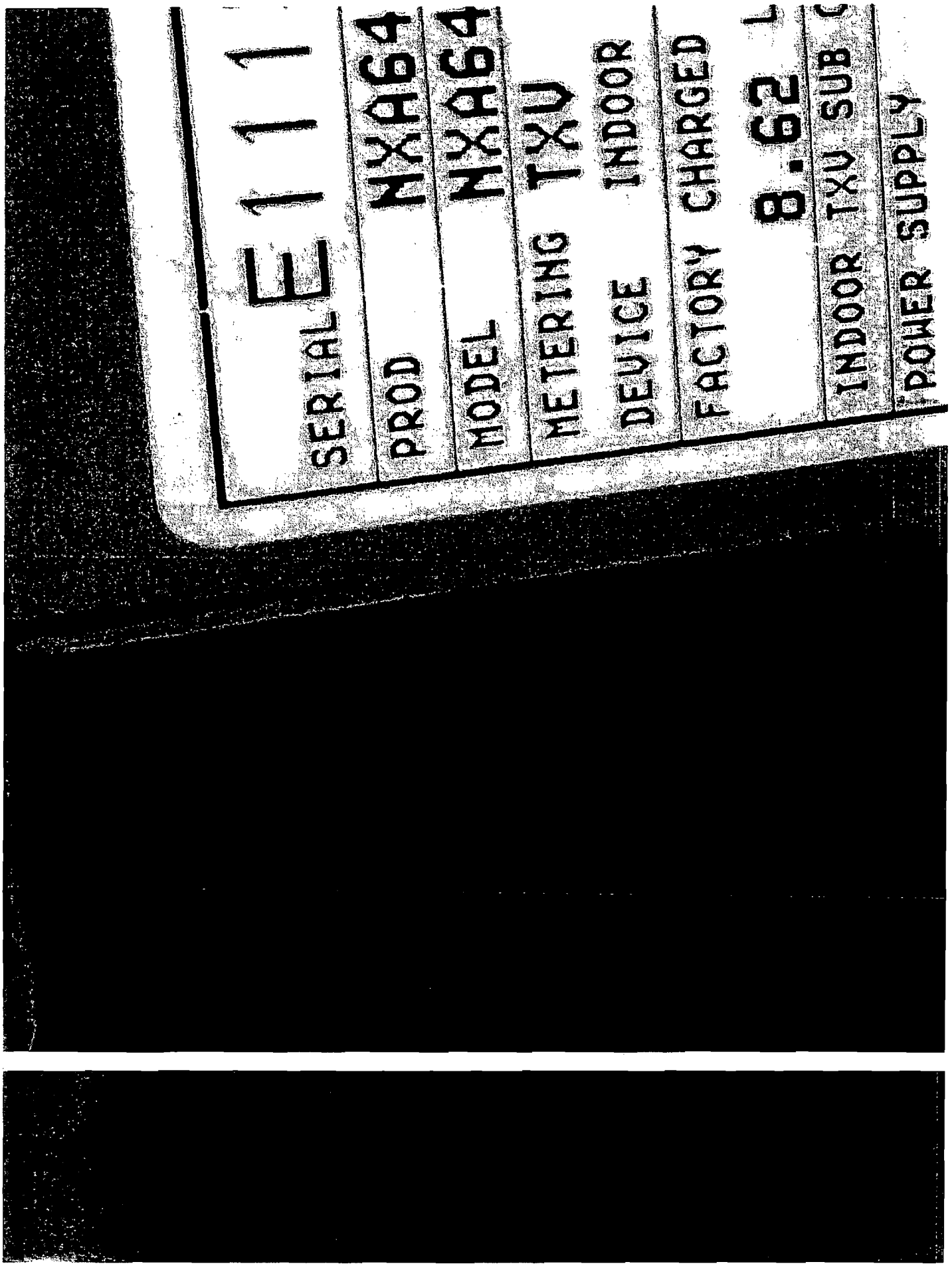
Woolley HVAC units

From: **United Sun Energy** (jdausman@unitedsunenergy.com) This sender is in your safe list.
Sent: Tue 12/17/13 3:33 PM
To: Kimberly Barber (energytesting@hotmail.com)

Kim,

Here are the two pictures of the HVAC units at Scot Woolley's home.




E111
SERIAL
PROD
NX464
MODEL
NX464
METERING TXU
DEVICE INDOOR
FACTORY CHARGED
8.62
INDOOR TXU SUB
POWER SUPPLY

1-2606226
NXA636GKA188
NXA636GKA188
TXD
INDOOR
CHARGED
LBS
5.5
NA
OUTDOOR
R410A
3.86
KG

Thanks,

John Dausman
Sales Executive, United Sun Energy
Phone 530-966-8106

On Dec 17, 2013, at 11:51 AM, Kimberly Barber <energytesting@hotmail.com> wrote:

> Hi John,
> Could you please call me.
>
> Thanks,
>
> Kimberly Barber
> Energy Consultant/HERS Rater/Solar rebate Facilitator

Woolley Residence — 12/19/2013 1:09:27 PM
Project Title — Date

3946 Barbados Ct
Project Address/Lot Number

Chico, CA 95973
City/State/ZIP

Chico — 11
City Used in Calculator Run — Climate Zone

FOR OFFICIAL USE ONLY
Reservation
PV
Date

Number of Sites with Solar: 1
Number of Inverters per Site with Identical Design Details: 62

Project Address List
3946 Barbados Ct

Project Description: **Single Family, Market Rate, Tier I EE, Dwelling Unit**

PV SYSTEM INFORMATION

Module Manufacturer and Model: **Canadian Solar CS6P-250P**
Inverter Manufacturer and Model: Enphase Energy M215-60-2LL-S2x
Series Modules in each String: 1 — Parallel Strings: 1 — Total Modules per Inverter: 1
Mounting (BIPV or Rack Mounted): Rack Mounted
Standoff Height (if rack mounted): Roof Mounted (greater than 3.5 inches from roof)

Installation Option: **Detailed**

Azimuth: 45 degrees — Tilt: 33.7 degrees — Mounting Height Above Ground: 2 feet
Shading Type: Minimal Shading — Tracking: Fixed

External display or standalone performance meter required to meet NSHP Guidebook requirements.

SHADING TABLE

Orientation	Obstruction Type	Altitude Angle to Shading Obstruction	Distance To Height Ratio	Minimum Distance To Small Tree	Minimum Distance To Medium Tree	Minimum Distance To Large Tree
ENE (55-79)	N/A	Min Shading	2	36	66	96
E (79-101)	N/A	Min Shading	2	36	66	96
ESE (101-124)	N/A	Min Shading	2	36	66	96
SE (124-146)	N/A	Min Shading	2	36	66	96
SSE (146-169)	N/A	Min Shading	2	36	66	96
S (169-191)	N/A	Min Shading	2	36	66	96
SSW (191-214)	N/A	Min Shading	2	36	66	96
SW (214-236)	N/A	Min Shading	2	36	66	96
WSW (236-259)	N/A	Min Shading	2	36	66	96
W (259-281)	N/A	Min Shading	2	36	66	96
WNW (281-305)	N/A	Min Shading	2	36	66	96

CEC PV CALCULATOR RESULTS

The per site incentive has been limited to the first 7.5 kW AC of the solar energy system, per the NSHP Guidebook.

	Per Site		Application Total
kW AC System Size:	13.55	kW AC System Size:	13.55
Annual kWh:	15,178	Annual kWh:	15,178
Annual TDV kBtu:	203,077	Annual TDV kBtu:	203,077

The CECPV Calculator determines the appropriate incentive amount for a PV system as calculated by the Expected Performance Based Incentive approach outlined in the NSHP Guidebook. The expected performance of a system provided by the CECPV Calculator is an estimate and actual performance will be different

The NSHP incentive may be reduced to a maximum percentage of the total system cost. Refer to NSHP Guidebook, 4th edition, Chapter III, Section C.

Woolley Residence 12/19/2013 1:09:27 PM

Project Title Date

FIELD VERIFICATION TABLE FVT113

The AC power output values (watts) in this table are for one inverter. For microinverters only the values are for the specified Number of Inverters per Site with Identical Design Details

Irradiance on Tilted Surface (W/m²)	Temperature (degrees Fahrenheit)																				
	T=15	T=20	T=25	T=30	T=35	T=40	T=45	T=50	T=55	T=60	T=65	T=70	T=75	T=80	T=85	T=90	T=95	T=100	T=105	T=110	T=115	T=120
300	3782	3720	3658	3658	3596	3534	3534	3472	3410	3348	3348	3286	3224	3224	3162	3100	3038	3038	2976	2914	2852	2852
325	4092	4030	3968	3906	3906	3844	3782	3720	3720	3658	3596	3534	3472	3472	3410	3348	3286	3286	3224	3162	3100	3038
350	4340	4278	4278	4216	4154	4092	4030	4030	3968	3906	3844	3782	3720	3720	3658	3596	3534	3472	3410	3410	3348	3286
375	4588	4526	4464	4402	4340	4340	4278	4216	4154	4092	4030	3968	3968	3906	3844	3782	3720	3658	3596	3534	3472	3472
400	4588	4526	4464	4402	4402	4340	4278	4216	4154	4092	4030	4030	3968	3906	3844	3782	3720	3658	3596	3534	3534	3472
425	4836	4774	4774	4712	4650	4588	4526	4464	4402	4340	4278	4216	4154	4092	4030	4030	3968	3906	3844	3782	3720	3658
450	5146	5084	5022	4960	4898	4836	4774	4712	4650	4588	4526	4464	4402	4340	4278	4216	4154	4092	4030	3968	3906	3844
475	5394	5332	5270	5208	5146	5084	5022	4960	4898	4836	4774	4712	4650	4588	4526	4464	4402	4340	4278	4216	4154	4030
500	5642	5580	5518	5456	5394	5332	5270	5208	5146	5084	5022	4960	4898	4836	4712	4650	4588	4526	4464	4402	4340	4278
525	5952	5890	5768	5704	5642	5580	5518	5456	5394	5332	5270	5146	5084	5022	4960	4898	4836	4774	4850	4588	4526	4464
550	6200	6138	6076	5952	5890	5828	5766	5704	5642	5518	5456	5394	5332	5270	5208	5084	5022	4960	4898	4836	4712	4650
575	6448	6386	6324	6200	6138	6076	6014	5952	5828	5766	5704	5642	5518	5456	5394	5332	5270	5146	5084	5022	4898	4836
600	6898	6834	6572	6448	6386	6324	6262	6138	6076	6014	5952	5828	5766	5704	5580	5518	5456	5394	5270	5208	5146	5022
625	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
650	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
675	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
725	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
775	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
825	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
850	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
875	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1075	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Woolley Residence — 12/19/2013 1:09:27 PM

Project Title — Date

COMPLIANCE STATEMENT

This certificate of compliance lists the PV features and specifications needed to comply with the current NSHP Guidebook requirements. This certificate has been signed by the individual with overall project responsibility. The undersigned recognizes that the PV installation will require installer testing and certification and field verification by an approved HERS rater. The undersigned recognizes that the final NSHP incentive amount paid to the applicant is subject to change based on the NSHP incentive level in effect at the time the reservation application is approved by the Energy Commission and is subject to change based on the specifications and configuration of the installed solar energy system

Homeowner or Builder/Developer or Applicant's Authorized Representative

Name: Scot Woolley
Title/Firm: Homeowner
Address: 3946 Barbados Ct
Chico, CA 95973
Telephone: 303-325-1989
Lic #: N/A

Kimberly Barber 12-18-13
(signature) (date)

Documentation Author

Name: Kimberly Barber
Title/Firm: A 5 Starr Corp.
Address: 835 Remor St.
Redding, CA 96002
Telephone: 530-275-3350

Kimberly Barber 12-18-13
(signature) (date)

Project Description: Single Family, Market Rate, Tier I EE, Dwelling Unit

For Current Incentive Level see: https://www.newsolarhomes.org/WebPages/Public/RebateLevelView.aspx

The incentive level reserved for a project will be determined at the time the reservation application is approved by the Energy Commission. Projects may be issued a reservation at a lower incentive level than the one in effect at the time the reservation application is submitted. The final incentive amount paid to the applicant is subject to change based on the specifications and configuration of the installed solar energy system. The table below provides the expected incentive amount for this project, based on the information provided, at each possible base incentive level in the current NSHP Guidebook. The base incentive levels noted in the table below may be changed in future NSHP Guidebook revisions.

Level	Base Incentive Level	NSHP Incentive per Site	Application Total NSHP Incentive
4	$1.75/W	$7,776	$7,776
5	$1.50/W	$6,665	$6,665
6	$1.25/W	$5,554	$5,554
7	$1.00/W	$4,443	$4,443
8	$0.75/W	$3,332	$3,332
9	$0.50/W	$2,222	$2,222
10	$0.25/W	$1,111	$1,111

UnitedSun ENERGY

Quotation & Contract for a Renewable Energy Power System

United Sun Energy
2625 Aztec Court
Chico CA 95928

Contractor's License Number 977259
Contractor's License Type C-10

Salesperson John Dausman
Phone 1-530-966-8106
Email jdausman@unitedsunenergy.com

November 15, 2013

Client
Scot and Kris Woolley

303-325-1989
sawoolley@me.com

Site Address 3946 Barbados Court
Chico CA 95973

Mailing Address 3946 Barbados Court
Chico, ca 95973

PROJECT DESCRIPTION and MAJOR COMPONENTS: System Size (kW DC, STC) 15.500 kW

A 15.5 kW PV System, with turn-key installation at customer's site address stated above System Size (kW AC, CEC) 13.547 kW

Mounting type: Composite roof

Major System Components:

62 **54 Canadian Solar CS6P-250P modules.**
Module STC rating: 250W

8 Canadian Solar CS6P-250P modules.
Module STC rating: 250W

62 **54 Enphase Energy M215-60-2LL-S2x inverters.**
Inverter rating: 215W each

8 Enphase Energy M215-60-2LL-S2x inverters.
Inverter rating: 215W each

Standard Components:

Racking and mounting components per Uniform Building Code
AC and DC disconnects per National Electric Code and Utility
Wiring, conduit, and overcurrent protection per National Electric Code
Roofing sealant or flashings as needed

Additional Components:

Monitoring:

Standard monitor/display built into inverter
Enphase Enlighten Digital Display Monitor

Standard Labor:

Design system and secure basic building or electrical permit
(Architectural, planning commission or other reviews are extra)
Install specified system in good workman like manner
Complete and submit utility interconnection documents
Coordinate building, electrical and utility inspections

Additional Work:

System Pricing Details		
Installed System Price including Sales Tax & Shipping (before Rebates)	$	51,449
HERS Rater Cost	$	1,800
Estimated Buy-Down Program Rebate $1.25/W to be paid to the customer from NHSP	$	(9,347)
Contract Price Net to Customer	$	43,902

Payment Schedule:

Event (%)		Amount	Approximate Date
Initial Deposit (10% or $1,000)	$	1,000	November 18, 2013
Upon obtaining building permit (1%)	$	543	November 25, 2013
Upon ordering of materials (43%)	$	23,152	December 2, 2013
	$	-	
Upon installation of solar array (44%)	$	23,430	December 9, 2013
Upon municipal building/electrical inspection* (10%)	$	5,124	December 23, 2013
Total Sale Price**	$	53,249	

Time for Completion:

The work to be performed by Contractor pursuant to this Agreement shall be commenced within _____ days from this date or approximately on December 2, 2013
and shall be substantially completed within 14 days or approximately on December 23, 2013

Construction Commencement Schedule:

Commencement of work shall be defined as
X Delivery of material to site or
_____

Contractor's failure to substantially commence work without lawful excuse, within twenty (20) days from the date specified above is a violation of the Contractors License Law

Additional Contract Provisions:

1. All payments are due Net 10 days. 1% interest per month carrying charge
2. *System Completion occurs upon building or electrical inspectors permit signoff/utility inspection
3. **Installer will refund rebate to customer within 3 days of receipt from the State
4. Quoted price includes permit and electric utility fees
5. This PV system includes a/the 10 year warranty for no cost repair or replacement of the system or system components, including any associated labor as specified in the California Solar Initiative Handbook applicable at the date of this contract

6

ALLOWANCES:

The following items or specific prices as indicated are included in the contract price as allowances.
The contract price shall be adjusted based upon actual amounts rather than estimated amounts herein.

X none or (1) _____
(2) _____
(3) _____

This quotation price is valid for 14 days from the above date. quoted schedule is valid for 3 days

Philip Egan

Salesperson Signature Philip Egan Date 11-15-13

If the customer decides to purchase the goods and services outlined above, this document shall become part of the Agreement for Supply and Installation of a Renewable Energy Power System which specifies additional terms and potentially consumer protections part of a Home Improvement Contract.

Customer Acceptance Signature _____ Date 11-27-13

(to be signed when customer decides to purchase)

Scott Woolley

Notice of Right to Cancellation

Date of Transaction: 11-15-13

You have entered into a transaction which may result in a lien, mortgage, or other security interest on your home. You have a legal right under Federal law to cancel this transaction, if you desire to do so, without any penalty or obligation, within three business days from the above date, or any later date on which all material disclosures required under the Truth in Lending Act have been given to you. If you so cancel the transaction, any lien, mortgage, or any other security interest on your home arising from this transaction is automatically void.

Any property traded in, any payments made by you under the contract or sale, and any negotiable instrument executed by you will be returned within 10 days following receipt by the seller of your cancellation notice. If you cancel, you must make available to the seller at your residence, in substantially as good condition as when received, any goods delivered to you under this contract or sale, or you may, if you wish, comply with the instructions of the seller regarding the return shipment of the goods at the seller's expense and risk.

If you do make the goods available to the seller and the seller does not pick them up within 20 days of the date of your notice of cancellation, you may retain or dispose of the goods without any further obligation. If you fail to make the goods available to the seller, or if you agree to return the goods to the seller and fail to do so, then you remain liable for performance of all obligations under the contract. To cancel this transaction, mail or deliver a signed and dated copy of this cancellation notice, or any other written notice of cancellation, or send a telegram to:

United Sun Energy
2625 Aztec Court , Chico, CA 95928

not later than midnight of _____
(date)

I hereby cancel this transaction _____
(date)

Customer Signature _____
(to be signed only in the event of cancellation)

Contractors are required by law to be licensed and regulated by the Contractor's State License Board. Any questions concerning a contractor may be referred to the registrar of the board whose address is:

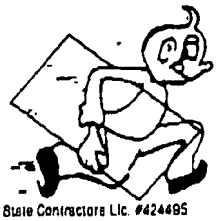
Contractor's State License Board
9821 Business Park Dr.
Sacramento, CA 95827

Receipt is herewith acknowledged of the foregoing Notice, the undersigned Customers having received copied thereof, and been apprised of the fact that after the three day period is over, the Contract is binding and that failure to pay according to the terms of the Contract may result in a lien and or mortgage foreclosure.

The above rights have been read and understood by the undersigned Customer(s)
this 27th day of November 2013

Customer Signature: _____
(to be signed at the time of sale)

Willey Residence



Miller GLASS

State Contractors Lic. #424495

745 Cherry St.
Chico, CA 95928
(530) 343-7934
BAR # ARD124495

5999 Foster Rd.
Paradise, CA 95969
(530) 877-9300
BAR # ARD124498

118 Walker St.
Orland, CA 95963
(530) 865-9838
BAR # ARD170972

Oroville
(530) 538-9300

SEND PAYMENT TO:
745 Cherry St.
Chico, CA 95928

Invoice: 1-192179
Date: 11/21/2012

Sold To:
VINCE BALARDI
20 EWING DR
CHICO CA 95973

Clear Low-E cvr

H (530)345-8999

CsrJIM TechJON PO TermsC.O.D

Notes:ALPINE 7000 SERIES WHITE VINYL WINDOWS WITH LOW E GLASS
DELIVERED TO JOBSITE.

ALPINE H2608---11/12/12

Job Site: 3946 BARBADOS CT
CHICO CA 95973

Pmt Info:DK 1030 RV

Thank you for choosing Miller Glass, Inc.

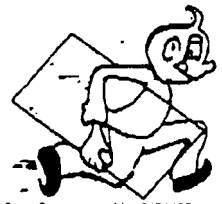
vers:8.0.74 Page: 2

AUTHORIZATION TO PAY - I hereby authorize and empower the above-named insurance company to pay this invoice in full settlement, satisfaction and discharge of all loss under the above policy. Upon such payment, all rights I may have for claim and demand for loss and damage described above against the above named insurance company shall be thereby forever discharged. In the event that the above-named insurance company does not make timely and/or full payment of this invoice according to its terms, I hereby accept responsibility for such payment and agree to pay all charges reflected on this invoice to the above-named glass company subject to and according to all terms and conditions on this invoice.

CUSTOMER'S SIGNATURE

TERMS: NET 30 DAYS. SERVICE CHARGE OF 1½% PER MONTH (18% PER ANNUM) WILL BE CHARGED ON OVERDUE ACCOUNTS.

Walley Residence



State Contractors Lic. #424495

Miller GLASS

745 Cherry St.
Chico, CA 95928
(530) 343-7934
BAR # ARD124495

5999 Foster Rd.
Paradise, CA 95969
(530) 877-9300
BAR # ARD124496

116 Walker St.
Orland, CA 95963
(530) 865-9839
BAR # ARD170972

Oroville
(530) 533-9300

SEND PAYMENT TO:
745 Cherry St.
Chico, CA 95928

Invoice: 1-192179
Date: 11/21/2012

Sold To:
VINCE BALARDI
20 EWING DR
CHICO CA 95973

H (530)345-8999

CsrJIM	TechJON	PO	TermsC.O.D

Qty	Part / Description
2	2050 SH DR 18" VT
1	5050 PW DR
3	4026 PW LR MULLED TO SH BELOW
3	4050 SH LR
1	5040 XO BR2
1	4020 PW CLOSET
1	3016 XO SHOWER
2	5050 XO TUB TEMPERED
2	2650 SH MBR 18" VT
1	60610 OX MBR
2	2060 SH FR 18" VT
1	5060 PW FR
1	2060 SH NK TEMPERED 18" VT
2	5060 PW NK
3	2060 SH NK 18" VT
1	4060 PW NK
2	5040 XO BR 3+4
1	4016 XO BA3
1	5040 XO GAR

Continued...

AUTHORIZATION TO PAY - I hereby authorize and empower the above-named insurance company to pay this invoice in full settlement, satisfaction and discharge of all loss under the above policy. Upon such payment, all rights I may have for claim and demand for loss and damage described above against the above named insurance company shall be thereby forever discharged. In the event that the above-named insurance company does not make timely and/or full payment of this invoice according to its terms, I hereby accept responsibility for such payment and agree to pay all charges reflected on this invoice to the above-named glass company subject to and according to all terms and conditions on this invoice.

CUSTOMER'S SIGNATURE

TERMS: NET 30 DAYS. SERVICE CHARGE OF 1½% PER MONTH (18% PER ANNUM) WILL BE CHARGED ON OVERDUE ACCOUNTS.

Update 12/4/07
* with using Argon use
Clr=Argon-LowE # for UV

		U-Value		Solar Rec	
		SB75		SB	
		Res		Res	
	Clr - Clr				
	Clr - Argon -Clr				
	Clr - LowE				
	Clr - Argon -LowE				
Duraseal spacer .30	Clr - Argon -LowE				
	* Brz - LowE				
	* Gray - LowE.				
	* SC Brz - LowE				
	Clr - Clr				
	Clr - Argon -Clr				
	Clr - LowE				
	Clr - Argon -LowE				
Duraseal spacer .30	Clr - Argon -LowE				
	* Brz - LowE				
	* Gray - LowE				
	* SC Brz - LowE				
	Clr - Clr				
	Clr - Argon -Clr				
	Clr - LowE				
	Clr - Argon -LowE				
	* Brz - LowE				
	* Gray - LowE.				
	* SC Brz - LowE				
	Clr - Clr				
	Clr - Argon -Clr				
	Clr - LowE	0.33		0.27	50
	Clr - Argon -LowE				
	* Brz - LowE				
	* Gray - LowE.				
	* SC Brz - LowE				
	LowE - LowE - CLR SB60				
	LowE - LowE - CLR argon SB60				
	Clr - Clr				
	Clr - Argon -Clr				
	Clr - LowE	0.31		0.25	.56
	Clr - Argon -LowE				
	* Brz - LowE				
	* Gray - LowE.				
	* SC Brz - LowE				
	LowE - LowE - CLR SB60				
	LowE - LowE - CLR argon SB60				
	Clr - Clr				
	Clr - Argon -Clr	0.40			.63
	Clr - LowE	0.35			0.86
	Clr - Argon -LowE				.56
	* Brz - LowE				
	* Gray - LowE.				
	* SC Brz - LowE	0.35			
	LowE - LowE - CLR SB60				
	LowE - LowE - CLR argon SB60	0.25			
	Clr - Clr	0.47	0.47		
	Clr - Argon -Clr				
	Clr - LowE	0.32	0.32		.62
	Clr - Argon -LowE	0.28	0.28		.63
	* Brz - LowE	0.32	0.32	0.26	0.47
	* Gray - LowE.	0.32	0.32	0.26	.47
	* SC Brz - LowE	0.32	0.32	0.25	.18
	LowE - LowE - CLR SB60	0.25	0.24	0.19	.53
	LowE - LowE - CLR argon SB60				

Clr - Clr						
Clr - Argon -Clr						
Clr - LowE	0.3					
Clr - Argon -LowE						
* Brz - LowE						
* Gray - LowE						
* SC Brz - LowE						
LowE - LowE - CLR SB60						
LowE - LowE - CLR argon SB60						
Clr - Clr						
Clr - Argon -Clr						
Clr - LowE	0.3					
Clr - Argon -LowE						
* Brz - LowE						
* Gray - LowE						
* SC Brz - LowE						
LowE - LowE - CLR SB60						
LowE - LowE - CLR argon SB60						
Clr - Clr						
Clr - Argon -Clr	0.4					
Clr - LowE	0.3					
Clr - Argon -LowE						
* Brz - LowE	0.					
* Gray - LowE						
* SC Brz - LowE						
LowE - LowE - CLR SB60	0.					
LowE - LowE - CLR argon SB60	0.					
		19 Swing				
Clr - Clr	0.4					
Clr - Argon -Clr	0.					
Clr - LowE	0.3					
Clr - Argon -LowE	0.					
		19 Drawing				
Clr - Clr	0.4					
Clr - Argon -Clr	0.45					
Clr - LowE	0.3					
Clr - Argon -LowE	0.3					
		35 DH				
Clr - Clr	0.4					
Clr - Argon -Clr	0.44	0.44				
Clr - LowE	0.33		0.2			
Clr - Argon -LowE	0.3					
		35 DH				
Clr - Clr	0.4					
Clr - Argon -Clr	0.4	0.4				
Clr - LowE	0.35	0.34	0.2	0.2	0.54	0.48
Clr - Argon -LowE	0.31	0.31	0.2	0.2	0.54	0.48
		70 DH				
Clr - Clr	0.44	0.44	0.5	0.59	0.63	0.63
Clr - Argon -Clr	0.42	0.42	0.5	0.5	0.63	0.63
Clr - LowE	0.3	0.3				
Clr - Argon -LowE	0.28	0.28	0.3	0.3	0.56	0.49

PERFORMANCE RESULTS

Total Window Performance

Total window performance measures the centre of glass, the largest area for heat gain and loss, as well as the edge of the glass and the window's frame to provide an overall u-factor, solar heat gain coefficient and condensation resistance rating.

Our all-season LowE argon, available in dualpane and tripane, combined with Super Spacer for superior edge performance, and our low conductivity window designs provide improved comfort, condensation resistance and energy savings.

ES7000	Dual			Dual LowE			Dual LowE w/ Argon			Dual LowE-R			Dual LowE-R w/ Argon		
	U-factor	SHGC	CR	U-factor	SHGC	CR	U-factor	SHGC	CR	U-factor	SHGC	CR	U-factor	SHGC	CR
Casement	.41	.52	45	.29	.28	60	.27	.28	60	.31	.43	56	.29	.43	58
Fixed	.43	.61	44	.30	.33	56	.27	.33	59	.31	.51	55	.29	.51	57
Picture	.45	.68	45	.30	.36	57	.27	.36	59	.30	.56	55	.30	.56	58
Awning	.41	.52	47	.29	.28	58	.27	.28	60	.31	.43	54	.29	.43	57

ES7000	Tripane			Tripane LowE			Tripane LowE w/ Argon			Tripane 2LowE			Tripane 2LowE w/ Argon		
	U-factor	SHGC	CR	U-factor	SHGC	CR	U-factor	SHGC	CR	U-factor	SHGC	CR	U-factor	SHGC	CR
Casement	.29	.48	60	.24	.26	67	.22	.26	69	.20	.24	74	.18	.24	77
Fixed	.30	.56	60	.23	.30	67	.21	.30	69	.19	.28	73	.17	.28	76
Picture	.31	.62	60	.23	.33	67	.21	.33	69	.18	.31	74	.16	.31	76
Awning	.29	.48	60	.23	.26	68	.22	.26	69	.19	.24	73	.18	.24	76

ES7000	Tripane LowE-R			Tripane LowE-R w/ Argon			Tripane 2LowE-R			Tripane 2LowE-R w/ Argon		
	U-factor	SHGC	CR	U-factor	SHGC	CR	U-factor	SHGC	CR	U-factor	SHGC	CR
Casement	.24	40	66	.23	.40	68	.21	.38	72	.19	.38	74
Fixed	.24	.47	66	.23	.47	68	.20	.44	71	.18	.45	73
Picture	.24	.52	66	.22	.52	68	.19	49	72	.17	.49	74
Awning	.24	.40	67	.23	.40	68	.21	.38	71	.19	.38	74

ES3500	Dual			Dual LowE			Dual LowE w/ Argon			Dual LowE-R			Dual LowE-R w/ Argon		
	U-factor	SHGC	CR	U-factor	SHGC	CR	U-factor	SHGC	CR	U-factor	SHGC	CR	U-factor	SHGC	CR
Slider	.46	.63	44	.32	.34	55	.29	.33	57	.33	.52	53	.31	.52	55
Single Hung	.46	.65	43	.32	.36	54	.29	.36	56	.33	.54	53	.31	.54	55
Picture	.46	.68	44	.31	.36	56	.28	.36	59	.33	.56	55	.30	.56	57

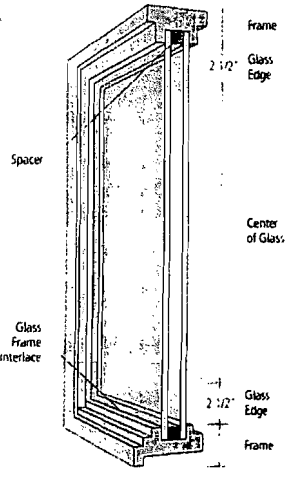
NOTE: U-factors are an imperial measurement (BTU/hr ft² 0').
To convert to metric (W/m²K - watt per sq. metre kelvin) multiply by 5.678 (i.e. A .35 imperial U-factor converts to 2.00 metric U-value).

Numbers are total window performance without argon gas. All windows shipped into high elevation areas require capillary tubes and will not be argon gas filled.

Total Window U-factor – Measures the rate of heat transfer during winter nighttime conditions. (0° C outside, 22° C inside). The lower the u-factor the slower the heat transfer.

Total Window Solar Heat Gain Coefficient (SHGC) – Measures the fraction of incident solar heat transferred through a window - centre of glass, edge and frame. The lower the number, the better the window is at blocking heat.

Condensation Resistance (CR) – Measures how well a product will resist the formation of condensation and is expressed as a number between 1 and 100. The higher this number is the better the window will resist the formation of condensation. This rating is useful for the comparing of window products and is not meant to indicate when the condensation will actually occur.



~~Bard~~ Wesley 3 - 3.5

AHRI CERTIFIED™
www.ahridirectory.org

Certificate of Product Ratings

AHRI Certified Reference Number: 4215822 Date: 12/17/2013

Product: Split System: Air-Cooled Condensing Unit, Coil Alone
Outdoor Unit Model Number: NXA636GKA*
Manufacturer: DAY & NIGHT
Indoor Unit Model Number: C(A,C,D,E)36C34+TDR
Manufacturer: ASPEN MANUFACTURING
Trade/Brand name: ASPEN
Series name:

Manufacturer responsible for the rating of this system combination is ASPEN MANUFACTURING

Rated as follows in accordance with AHRI Standard 210/240-2008 for Unitary Air-Conditioning and Air-Source Heat Pump Equipment and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (Btuh):	34000
EER Rating (Cooling):	12.00
SEER Rating (Cooling):	15.00
IEER Rating (Cooling):	

* Ratings followed by an asterisk (*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate.

AHRI Air-Conditioning, Heating, and Refrigeration Institute

CERTIFICATE NO.: 130317795103425125

AHRI CERTIFIED™
www.ahridirectory.org

Certificate of Product Ratings

AHRI Certified Reference Number: 4214289 Date: 12/18/2013

Product: Split System: Air-Cooled Condensing Unit, Coil Alone
Outdoor Unit Model Number: NXA642GKA*
Manufacturer: DAY & NIGHT
Indoor Unit Model Number: C(A,C,D,E)48C34+TDR
Manufacturer: ASPEN MANUFACTURING
Trade/Brand name: ASPEN
Series name:

Manufacturer responsible for the rating of this system combination is ASPEN MANUFACTURING

Rated as follows in accordance with AHRI Standard 210/240-2008 for Unitary Air-Conditioning and Air-Source Heat Pump Equipment and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (Btuh):	42000
EER Rating (Cooling):	12.00
SEER Rating (Cooling):	15.00
IEER Rating (Cooling):	

* Ratings followed by an asterisk (*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate.

AHRI Air-Conditioning, Heating, and Refrigeration Institute

CERTIFICATE NO.: 130318608822407784

AHRI CERTIFIED™
www.ahridirectory.org

This furnace qualifies for AFUE Federal Energy Efficiency Tax Credit when placed in service between February 17 2009 and December 31 2013

Certificate of Product Ratings

AHRI Certified Reference Number: 5039434 Date: 12/17/2013

Product: Residential Furnace Heating Equipment

Model Number: N9MSE0601714A

Manufacturer: INTERNATIONAL COMFORT PRODUCTS

Trade/Brand name: COMFORTMAKER, AIRQUEST, ARCOAIRE, DAY & NIGHT, HEIL, ICP COMMERCIAL, KEEPRITE, KENMORE, MARATHERM, TEMPSTAR

Rated as follows in accordance with Department of Energy (DOE) furnace test procedures as published in the latest edition of the Code of Federal Regulations, 10 CFR Part 430 and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

AFUE:	95.5%
Output Heating Capacity:	58 MBTUH

The following data is for reference only and is not certified by AHRI:

Input:	60 MBTUH
Ef:	48.3 MMBTU/yr
Eae:	636 kWh/yr
PE:	53 Watts
Furnace Type:	Non-Weatherized
Config:	Upflow, Downflow, Horizontal
Fuel Type:	Natural Gas, Propane

FootNote 22 - Requires gas conversion kit for propane.
FootNote 25 - Manufactured (Mobile) Home approved with accessory kit.
FootNote 102 - May be installed as a direct vent or non-direct vent.

* Ratings followed by an asterisk (*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate.

CERTIFICATE VERIFICATION
The information for the model cited on this certificate can be verified at www.ahridirectory.org, click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed below.

AHRI Air-Conditioning, Heating, and Refrigeration Institute

CERTIFICATE NO.: 130317797337927709

Woolley water heater

AHRI CERTIFIED™
www.ahridirectory.org

Certificate of Product Ratings

AHRI Certified Reference Number: 2110951 Date: 12/11/2013 †Status: Active

Product: Residential Water Heaters
Model Number: M4503F*X(C)**
Manufacturer: BRADFORD WHITE CORPORATION
Trade/Brand name: BRADFORD WHITE,JETGLAS

Rated as follows in accordance with Department of Energy (DOE) Water Heater test procedures as published in the latest edition of the Code of Federal Regulations, 10 CFR Part 430 and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Energy Factor:	0.62
First Hour Rating:	89.0 Gallons per hour

The following data is for reference only and is not certified by AHRI:

Energy Source:	Propane Gas
Water Heater Type:	Storage
Rated Storage Volume:	50 Gals
Input:	36.0 MBtuh
Recovery Efficiency:	79 %
Heat Traps:	Yes

FootNote 7 - * Indicates a letter A-Z or a number 0-9

* Ratings followed by an asterisk (*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate.

AHRI Air-Conditioning, Heating, and Refrigeration Institute

CERTIFICATE NO.: 130312783426132448

Project Title..... Wooley Residence/13US101E Date..12/11/13 14:28:31
Project Address..... 3946 Barbados Ct ******
Chico, Ca 96073 *v8.1*
Documentation Author... Kimberly Barber ******
5 Starr Energy
5232 Shasta Dam Blvd. Ste. F
Shasta Lake, CA 96019
530-275-3350
Climate Zone..... 11
Compliance Method..... MICROPAS8 v8.1 for 2008 CEC Standards (r04)

Building Permit #
Plan Check / Date
Field Check/ Date

MICROPAS8 v8.1 File-13US101E Wth-CTZ11S08
User#-MP1628 User-S Starr Energy Run-United Sun Enrgy/13US101E

TABLE OF CONTENTS

Report	Page
FORM CF-1R.....	1
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ABOVE CODE REPORT.....	13
HVAC SIZING.....	14

12/11/2013 - sent Contract
12/11/2013 - AHRI water heater added
12/11/2013 - Robin w/ Miller glass going to fax Specs
12/11/2013 Left message for Rick Denny + John Dausman to confirm HVAC contractor

operable Low E
0.35/0.2
Fixed
0.33/0.23
door
0.39/0.24

Project Title..... Wooley Residence/13US101E Date..12/11/13 14:28:31
Project Address..... 3946 Barbados Ct ******
Chico, Ca 96073 *v8.1*
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Plan Check / Date

Field Check/ Date

MICROPAS8 v8.1 File-13US101E Wth-CTZ11S08
User#-MP1628 User-5 Starr Energy Run-United Sun Enrgy/13US101E

MICROPAS8 ENERGY USE SUMMARY

Energy Use (kTDV/sf-yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating.....	38.01	33.73	4.28	11.3%
Space Cooling.....	31.16	20.69	10.47	33.6%
Ventilation Fans.....	0.68	0.68	0.00	0.0%
Water Heating.....	17.22	16.03	1.19	6.9%
Total	87.07	71.13	15.94	18.3%

*** Building complies with Computer Performance ***
*** HERS Verification Required for Compliance ***

GENERAL INFORMATION

HERS Verification.....	Required
Conditioned Floor Area.....	3083 sf
Building Type.....	Single Family Detached
Construction Type	New
Natural Gas at Site	No
Building Front Orientation.	Front Facing 0 deg (N)
Number of Dwelling Units...	1
Number of Building Stories.	1
Weather Data Type.....	FullYear
Floor Construction Type....	Slab On Grade
Number of Building Zones...	1
Conditioned Volume.....	29993 cf
Slab-On-Grade Area.....	3083 sf
Glazing Percentage.....	17 % of floor area
Average Glazing U-factor...	0.34 Btu/hr-sf-F
Average Glazing SHGC.....	0.32
Average Ceiling Height.....	9.7 ft

Project Title..... Wooley Residence/13US101E Date..12/11/13 14:28:31

MICROPAS8 v8.1 File-13US101E Wth-CTZ11S08
User#-MP1628 User-5 Starr Energy Run-United Sun Enrgy/13US101E

BUILDING ZONE INFORMATION

Zone Type	Floor Area (sf)	Volume (cf)	# of Dwell Units	# of People	Conditioned	Thermostat Type	Vent Height (ft)	Vent Area (sf)	Verified Leakage or Housewrap
Residence	3083	29993	1.00	5.0	Yes	Setback	2.0	Standard	No

ATTIC AND ROOF DETAILS

Roof Type	Roof Mass (lb/sqft)	Roof Rise	Reflectance	Emissivity	Frame Depth (in.)	Frame Spacing (in.)	R-Value Above Deck	R-Value Below Deck	Vent Area Ratio	Vent High
Asphalt	Light	8:12	0.08	0.85	3.5	24 oc	0.00	0.00	1/150	0.30

OPAQUE SURFACES

Surface	Frame Type	Area (sf)	U-factor	Cavity R-val	Sheathing R-val	Act Azm	Tilt	Solar Gains	Appendix JA4 Reference	Location/ Comments
1 Wall	Wood	359	0.069	15	4	0	90	Yes	4.3.1 C4	Front Wall
2 Wall	Wood	265	0.074	19	0	0	90	No	4.3.1 A5	Front Wall
3 Wall	Wood	295	0.069	15	4	0	90	No	4.3.1 C4	Garage Wall
4 Wall	Wood	415	0.069	15	4	90	90	Yes	4.3.1 C4	Left Wall
5 Wall	Wood	505	0.069	15	4	180	90	Yes	4.3.1 C4	Back Wall
6 Wall	Wood	436	0.069	15	4	270	90	Yes	4.3.1 C4	Right Wall
7 Wall	Wood	36	0.069	15	4	45	90	Yes	4.3.1 C4	CWALL 45
8 Wall	Wood	20	0.069	15	4	225	90	Yes	4.3.1 C4	CWALL 225
9 Wall	Wood	36	0.069	15	4	315	90	Yes	4.3.1 C4	CWALL 315
10 AtticRad	Wood	3018	0.025	38	0	n/a	0	Yes	4.2.1 A21	Attic
11 AtticRad	Wood	65	0.048	19	0	n/a	0	Yes	4.2.1 A16	FAU Pltfrm
12 Door	Wood	24	0.500	0	0	0	90	Yes	4.5.1 A4	Front Entry
13 Door	Wood	20	0.500	0	0	0	90	No	4.5.1 A4	Garage Entry

PERIMETER LOSSES

Surface	Length (ft)	F2 Factor	Insul R-val	Solar Gains	Appendix JA4 Reference	Location/ Comments
14 SlabEdge	285	0.730	R-0/0in	No	4.4.7 A1	Standard Slab Edge

Project Title..... Wooley Residence/13US101E Date..12/11/13 14:28:31

MICROPAS8 v8.1 File-13US101E Wth-CTZ11S08
User#-MP1628 User-5 Starr Energy Run-United Sun Enrgy/13US101E

FENESTRATION SURFACES

Orientation	Area (sf)	U-factor	SHGC	Act Azm	Tilt	Exterior Shade Type	Location/Comments
1 Wind Front (N)	10.0	0.340	0.320	0	90	Standard	F1/Vinyl/Wood Operable L
2 Wind Front (N)	25.0	0.340	0.320	0	90	Standard	F2/Vinyl/Wood Fixed Low
3 Wind Front (N)	10.0	0.340	0.320	0	90	Standard	F3/Vinyl/Wood Operable L
4 Wind Front (N)	6.0	0.340	0.320	0	90	Standard	F4/Vinyl/Wood Fixed Low
5 Wind Front (N)	6.0	0.340	0.320	0	90	Standard	F5/Vinyl/Wood Fixed Low
6 Wind Front (N)	20.0	0.340	0.320	0	90	Standard	F6/Vinyl/Wood Operable L
7 Wind Front (N)	10.0	0.340	0.320	0	90	Standard	F7/Vinyl/Wood Fixed Low
8 Wind Front (N)	4.0	0.340	0.320	0	90	Standard	F8/Vinyl/Wood Operable L
9 Wind Right (W)	20.0	0.340	0.320	270	90	Standard	R1/Vinyl/Wood Operable L
10 Wind Right (W)	4.5	0.340	0.320	270	90	Standard	R2/Vinyl/Wood Operable L
11 Wind Right (W)	25.0	0.340	0.320	270	90	Standard	R3/Vinyl/Wood Operable L
12 Wind Right (W)	12.0	0.340	0.320	270	90	Standard	R4/Vinyl/Wood Operable L
13 Wind Right (W)	30.0	0.340	0.320	270	90	Standard	R5/Vinyl/Wood Fixed Low
14 Wind Right (W)	12.0	0.340	0.320	270	90	Standard	R6/Vinyl/Wood Operable L
15 Wind Back (S)	25.0	0.340	0.320	180	90	Standard	B1/Vinyl/Wood Operable L
16 Wind Back (S)	17.5	0.340	0.320	180	90	Standard	B2/Vinyl/Wood Operable L
17 Door Back (S)	18.1	0.350	0.330	180	90	Standard	B3/Vinyl/Wood Patio Door
18 Door Back (S)	18.1	0.350	0.330	180	90	Standard	B4/Vinyl/Wood Patio Door
19 Wind Back (S)	17.5	0.340	0.320	180	90	Standard	B5/Vinyl/Wood Operable L
20 Wind Back (S)	12.0	0.340	0.320	180	90	Standard	B6/Vinyl/Wood Operable L
21 Wind Back (S)	30.0	0.340	0.320	180	90	Standard	B7/Vinyl/Wood Fixed Low
22 Wind Back (S)	12.0	0.340	0.320	180	90	Standard	B8/Vinyl/Wood Operable L
23 Wind Back (S)	12.0	0.340	0.320	180	90	Standard	B9/Vinyl/Wood Operable L
24 Wind Back (S)	30.0	0.340	0.320	180	90	Standard	B10/Vinyl/Wood Fixed Low
25 Wind Back (S)	12.0	0.340	0.320	180	90	Standard	B11/Vinyl/Wood Operable
26 Wind Back (S)	20.0	0.340	0.320	180	90	Standard	B12/Vinyl/Wood Operable
27 Wind Left (E)	6.0	0.340	0.320	90	90	Standard	L1/Vinyl/Wood Operable L
28 Wind Left (E)	20.0	0.340	0.320	90	90	Standard	L2/Vinyl/Wood Operable L
29 Wind Front (NE)	20.0	0.340	0.320	45	90	Standard	C1 45/Vinyl/Wood Operabl
30 Wind Front (NE)	10.0	0.340	0.320	45	90	Standard	C2 45/Vinyl/Wood Fixed L
31 Wind Right (NW)	20.0	0.340	0.320	315	90	Standard	C1 315/Vinyl/Wood Operab
32 Wind Right (NW)	10.0	0.340	0.320	315	90	Standard	C2 315/Vinyl/Wood Fixed
33 Door Back (SW)	20.1	0.350	0.330	225	90	Standard	C1 225/Vinyl/Wood Patio

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OVERHANGS

Surface	Area (sf)	Window Width	Window Height	Overhang Depth	Overhang Height	Overhang Left Extension	Overhang Right Extension
1 Window	10.0	2.0	5.0	7.0	1.5	n/a	n/a
2 Window	25.0	5.0	5.0	7.0	1.5	n/a	n/a
3 Window	10.0	2.0	5.0	7.0	1.5	n/a	n/a
4 Window	6.0	1.0	6.0	7.0	1.5	n/a	n/a
5 Window	6.0	1.0	6.0	7.0	1.5	n/a	n/a
6 Window	20.0	4.0	5.0	1.5	1.5	n/a	n/a
7 Window	10.0	4.0	2.5	1.5	1.5	n/a	n/a
8 Window	4.0	2.0	2.0	1.5	1.5	n/a	n/a
9 Window	20.0	5.0	4.0	1.5	1.5	n/a	n/a
10 Window	4.5	3.0	1.5	1.5	1.5	n/a	n/a
11 Window	25.0	5.0	5.0	1.5	1.5	n/a	n/a
12 Window	12.0	2.0	6.0	1.5	1.5	n/a	n/a
13 Window	30.0	5.0	6.0	1.5	1.5	n/a	n/a
14 Window	12.0	2.0	6.0	1.5	1.5	n/a	n/a
15 Window	25.0	5.0	5.0	1.5	1.5	n/a	n/a
16 Window	17.5	3.5	5.0	12.0	1.5	n/a	n/a
17 Door	18.1	2.5	6.7	12.0	1.5	n/a	n/a
18 Door	18.1	2.5	6.7	12.0	1.5	n/a	n/a
19 Window	17.5	3.5	5.0	12.0	1.5	n/a	n/a
20 Window	12.0	2.0	6.0	12.0	1.5	n/a	n/a
21 Window	30.0	5.0	6.0	12.0	1.5	n/a	n/a
22 Window	12.0	2.0	6.0	12.0	1.5	n/a	n/a
23 Window	12.0	2.0	6.0	1.5	1.5	n/a	n/a
24 Window	30.0	5.0	6.0	1.5	1.5	n/a	n/a
25 Window	12.0	2.0	6.0	1.5	1.5	n/a	n/a
26 Window	20.0	5.0	4.0	1.5	1.5	n/a	n/a
27 Window	6.0	4.0	1.5	1.5	1.5	n/a	n/a
28 Window	20.0	5.0	4.0	1.5	1.5	n/a	n/a
29 Window	20.0	4.0	5.0	1.5	1.5	n/a	n/a
30 Window	10.0	4.0	5.0	1.5	1.5	n/a	n/a
31 Window	20.0	4.0	5.0	1.5	1.5	n/a	n/a
32 Window	10.0	4.0	5.0	1.5	1.5	n/a	n/a
33 Door	20.1	3.0	6.7	12.0	1.5	n/a	n/a

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SLAB SURFACES

Slab Type	Area (sf)
Standard Slab	3083

HVAC SYSTEMS

System Type	Minimum Efficiency	Verified EER	Verified Refrig Charge or CID	Verified Adequate Airflow	Verified Fan Watt Draw	Verified Maximum Cooling Capacity
Furnace	0.960 AFUE	n/a	n/a	n/a	n/a	n/a
ACSplit	16.00 SEER	12	No	No	No	No

HVAC SIZING

System Type	Total Heating Load (Btu/hr)	Sensible Cooling Load (Btu/hr)	Design Cooling Capacity (Btu/hr)	Verified Maximum Cocling Capacity (Btu/hr)
Furnace	54579	n/a	n/a	n/a
ACSplit	n/a	30206	36223	n/a

Sizing Location..... CHICO EXP STA
Winter Outside Design..... 22 F
Winter Inside Design..... 70 F
Summer Outside Design..... 100 F
Summer Inside Design..... 75 F
Summer Range..... 37 F

DUCT SYSTEMS

System Type	Duct Location	Duct R-value	Verified Duct Leakage	Verified Surface Area	Verified Buried Ducts
Furnace	Attic	R-6	Yes	No	No
ACSplit	Attic	R-6	Yes	No	No

FAN SYSTEMS

System Type	Flow (cfm)	Power (W/cfm)
Standard	68.33	.25

WATER HEATING SYSTEMS

Tank Type	Heater Type	Distribution Type	Number in System	Energy Factor	Tank Size (gal)	External Insulation R-value
1 SmallStorage	Gas	Standard	1	0.62	50	R-n/a

SPECIAL FEATURES AND MODELING ASSUMPTIONS

*** Items in this section should be documented on the plans, ***
*** installed to manufacturer and CEC specifications, and ***
*** verified during plan check and field inspection. ***

This building incorporates a Radiant Barrier.

HERS REQUIRED VERIFICATION

*** Items in this section require field testing and/or ***
*** verification by a certified home energy rater under ***
*** the supervision of a CEC-approved HERS provider using ***
*** CEC approved testing and/or verification methods and ***
*** must be reported on the CF-4R installation certificate. ***

This building incorporates HERS verified High Energy Efficiency Ratio (EER). 75 EER

This building incorporates HERS verified Duct Leakage. Target leakage is calculated and documented on the CF-4R. If the measured CFM is above the target, then corrective action must be taken to reduce the duct leakage and then must be retested. Alternatively, the compliance calculations could be redone without duct testing. If ducts are not installed, then HERS verification is not necessary. 350

REMARKS

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REMARKS

COMPLIANCE STATEMENT

This certificate of compliance lists the building features and performance specifications needed to comply with Title-24, Parts 1 and 6 of the California Code of Regulations, and the administrative regulations to implement them. This certificate has been signed by the individual with overall design responsibility.

DESIGNER or OWNER	DOCUMENTATION AUTHOR
Name.... Phillip Eagen	Name.... Kimberly Barber
Company. United Sun Energy	Company. 5 Starr Energy
Address. 2625 Aztec Dr.	Address. 5232 Shasta Dam Blvd. Ste. F
Chico, CA 95928	Shasta Lake, CA 96019
Phone... 530-345-0410	Phone... 530-275-3350
License. _____	
Signed.. _____ _____ (date)	Signed.. Kimberly Barber 12-11-2013 (date)

ENFORCEMENT AGENCY

Name.... _____
Title... _____
Agency.. _____
_____
Phone... _____

Signed.. _____ (date)

Project Title..... Wooley Residence/13US101E Date..12/11/13 14:28:31
Project Address..... 3946 Barbados Ct ******
Chico, Ca 96073 'v8.1*
Documentation Author... Kimberly Barber ******
5 Starr Energy
5232 Shasta Dam Blvd. Ste. F
Shasta Lake, CA 96019
530-275-3350
Climate Zone..... 11
Compliance Method..... MICROPAS8 v8.1 for 2008 CEC Standards (r04)

Building Permit #

Plan Check / Date

Field Check/ Date

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NOTE: Low-rise residential buildings subject to the Standards must comply with all applicable mandatory measures listed, regardless of the compliance approach used. More stringent energy measures listed on the Certificate of Compliance (CF-1R, CF-1R-ADD, or CF-1R-ALT Form) shall supersede the items marked with an asterisk (*) below. This Mandatory Measures Summary shall be incorporated into the permit documents and the applicable features shall be considered by all parties as minimum component performance specifications whether they are shown elsewhere in the documents or in this summary. Submit all applicable sections of the MF-1R Form with plans.

BUILDING ENVELOPE MEASURES:

116(a)1: Doors and windows between conditioned and unconditioned spaces are manufactured to limit air leakage.
116(a)4: Fenestration products (except field-fabricated windows) have a label listing the certified U-Factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration that meets the requirements of 10-111(a).
117: Exterior doors and windows are weather-stripped; all joints and penetrations are caulked and sealed.
118(a): Insulation specified or installed meets Standards for Insulating Material. Indicate type and include on CF-6R Form.
118(i): The thermal emittance and solar reflectance values of the cool roofing material meets the requirements of 118(i) when the installation of a Cool Roof is specified on the CF-1R Form.
*150(a): Minimum R-19 insulation in wood-frame ceiling or equivalent U-factor.
150(b): Loose fill insulation shall conform with manufacturer's installed design labeled R-Value.
*150(c): Minimum R-13 insulation in wood-frame wall or equivalent U-factor.
*150(d): Minimum R-13 insulation in raised wood-frame floor or equivalent U-factor.
150(f): Air retarding wrap is tested, labeled, and installed according to ASTM E1677-95(2000) when specified on the CF-1R Form.
150(g): Mandatory Vapor barrier installed in Climate Zones 14 or 16.
150(l): Water absorption rate for slab edge insulation material alone without facings is no greater than 0.3%; water vapor permeance rate is no greater than 2.0 perm/inch and shall be protected from physical damage and UV light deterioration.

FIREPLACES, DECORATIVE GAS APPLIANCES AND GAS LOG MEASURES:

150(e)1A: Masonry or factory-built fireplaces have a closable metal or glass

door covering the entire opening of the firebox.
150(e)1B: Masonry or factory-built fireplaces have a combustion outside air intake, which is at least six square inches in area and is equipped with a with a readily accessible, operable, and tight-fitting damper and or a combustion-air control device.
150(e)2: Continuous burning pilot lights and the use of indoor air for cooling a firebox jacket, when that indoor air is vented to the outside of the building, are prohibited.

SPACE CONDITIONING, WATER HEATING AND PLUMBING SYSTEM MEASURES:

110-113: HVAC equipment, water heaters, showerheads, faucets and all other regulated appliances are certified by the Energy Commission.
113(c)5: Water heating recirculation loops serving multiple dwelling units and High-Rise residential occupancies meet the air release valve, backflow prevention, pump isolation valve, and recirculation loop connection requirements of 113(c)5.
115: Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces, household cooking appliances (appliances with an electrical supply voltage connection with pilot lights that consume less than 150 Btu/hr are exempt), and pool and spa heaters.
150(h): Heating and/or cooling loads are calculated in accordance with ASHRAE, SMACNA or ACCA.
150(i): Heating systems are equipped with thermostats that meet the setback requirements of Section 112(c).
150(j)1A: Storage gas water heaters rated with an Energy Factor no greater than the federal minimal standard are externally wrapped with insulation having an installed thermal resistance of R-12 or greater.
150(j)1B: Unfired storage tanks, such as storage tanks or backup tanks for solar water-heating system, or other indirect hot water tanks have R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.
150(j)2: First 5 feet of hot and cold water pipes closest to water heater tank, non-recirculating systems, and entire length of recirculating sections of hot water pipes are insulated per Standards Table 150-B.
150(j)2: Cooling system piping (suction, chilled water, or brine lines),and piping insulated between heating source and indirect hot water tank shall be insulated to Table 150-B and Equation 150-A.
150(j)2: Pipe insulation for steam hydronic heating systems or hot water systems >15 psi, meets the requirements of Standards Table 123-A.
150(j)3A: Insulation is protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind.
150(j)3A: Insulation for chilled water piping and refrigerant suction lines includes a vapor retardant or is enclosed entirely in conditioned space.
150(j)4: Solar water-heating systems and/or collectors are certified by the Solar Rating and Certification Corporation.

DUCTS AND FANS MEASURES:

150(m)1: All air-distribution system ducts and plenums installed, are sealed

and insulated to meet the requirements of CMC Sections 601, 602, 603, 604, 605 and Standard 6-5; supply-air and return-air ducts and plenums are insulated to a minimum installed level of R-4.2 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape shall be used.

150(m)1: Building cavities, support platforms for air handlers, and plenums defined or constructed with materials other than sealed sheet.metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause reductions in the cross-sectional area of the ducts.

150(m)2D: Joints and seams of duct systems and their components shall not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.

150(m)7: Exhaust fan systems have back draft or automatic dampers.

150(m)8: Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operated dampers.

150(m)9: Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material.

150(m)10: Flexible ducts cannot have porous inner cores.

150(o): All dwelling units shall meet the requirements of ANSI/ASHRAE Standard 62.2-2007 Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings. Window operation is not a permissible method of providing the Whole Building Ventilation required in Section 4 of that Standard.

POOL AND SPA HEATING SYSTEMS AND EQUIPMENT MEASURES:

114(a): Any pool or spa heating system shall be certified to have: a thermal efficiency that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater; a permanent weatherproof plate or card with operating instructions; and shall not use electric resistance heating or a pilot light.

114(b)1: Any pool or spa heating equipment shall be installed with at least 36" of pipe between filter and heater, or dedicated suction and return lines, or built-up connections for future solar heating

114(b)2: Outdoor pools or spas that have a heat pump or gas heater shall have a cover.

114(b)3: Pools shall have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.

150(p): Residential pool systems or equipment meet the pump sizing, flow rate, piping, filters, and valve requirements of 150(p).

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RESIDENTIAL LIGHTING MEASURES:

150(k)1: High efficacy luminaires or LED Light Engine with Integral Heat Sink has an efficacy that is no lower than the efficacies contained in Table 150-C and is not a low efficacy luminaire as specified by 150(k)2.
150(k)3: The wattage of permanently installed luminaires shall be determined as specified by 130(d).
150(k)4: Ballasts for fluorescent lamps rated 13 Watts or greater shall be electronic and shall have an output frequency no less than 20 kHz.
150(k)5: Permanently installed night lights and night lights integral to a permanently installed luminaire or exhaust fan shall contain only high efficacy lamps meeting the minimum efficacies contained in Table 150-C and shall not contain a line-voltage socket or line-voltage lamp holder; OR shall be rated to consume no more than five watts of power as determined by 130(d), and shall not contain a medium screw-base socket.
150(k)6: Lighting integral to exhaust fans, in rooms other than kitchens, shall meet the applicable requirements of 150(k).
150(k)7: All switching devices and controls shall meet the requirements of 150(k)7.
150(k)8: A minimum of 50 percent of the total rated wattage of permanently installed lighting in kitchens shall be high efficacy.
EXCEPTION: Up to 50 watts for dwelling units less than or equal to 2,500 ft2 or 100 watts for dwelling units larger than 2,500 ft2 may be exempt from the 50% high efficacy requirement when: all low efficacy luminaires in the kitchen are controlled by a manual on occupant sensor, dimmer, energy management system (EMCS), or a multi-scene programmable control system; and all permanently installed luminaries in garages, laundry rooms, closets greater than 70 square feet, and utility rooms are high efficacy and controlled by a manual-on occupant sensor.
150(k)9: Permanently installed lighting that is internal to cabinets shall use no more than 20 watts of power per linear foot of illuminated cabinet.
150(k)10: Permanently installed luminaires in bathrooms, attached and detached garages, laundry rooms, closets and utility rooms shall be high efficacy.
EXCEPTION 1: Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by a manual-on occupant sensor certified to comply with the applicable requirements of 119.
EXCEPTION 2: Permanently installed low efficacy luminaires in closets less than 70 square feet are not required to be controlled by a manual-on occupant sensor.
150(k)11: Permanently installed luminaires located in rooms or areas other than in kitchens, bathrooms, garages, laundry rooms, closets, and utility rooms shall be high efficacy luimnaires.
EXCEPTION 1: Permanently installed low efficacy luminaires shall be allowed provided they are controlled by either a dimmer switch that complies with the applicable requirements of 119, or by a manual-on occupant sensor that complies with the applicable requirements of 119.
EXCEPTION 2: Lighting in detached storage building less than 1000 square feet located on a residential site is not required to comply with 150(k)11.
150(k)12: Luminaires recessed into insulated ceilings shall be listed for zero clearance insulation contact (IC) by Underwriters Laboratories or other

nationally recognized testing/rating laboratory; and have a label that certifies the luminaire is airtight with air leakage less then 2.0 CFM at 75 Pascals when tested in accordance with ASTM E283; and be sealed with a gasket or caulk between the luminaire housing and ceiling.

150(k)13: Luminaires providing outdoor lighting, including lighting for private patios in low-rise residential buildings with four or more dwelling units, entrances, balconies, and porches, which are permanently mounted to a residential building or to other buildings on the same lot shall be high efficacy.

EXCEPTION 1: Permanently installed outdoor low efficacy luminaires shall be allowed provided that they are controlled by a manual on/off switch, a motion sensor not having an override or bypass switch that disables the motion sensor, and one of the following controls: a photocontrol not having an override or bypass switch that disables the photocontrol; OR an astronomical time clock not having an override or bypass switch that disables the astronomical time clock; OR an energy management control system (EMCS) not having an override or bypass switch that allows the luminaire to be always on

EXCEPTION 2: Outdoor luminaires used to comply with Exception1 to 150(k)13 may be controlled by a temporary override switch which bypasses the motion sensing function provided that the motion sensor is automatically reactivated within six hours.

EXCEPTION 3: Permanently installed luminaires in or around swimming pool, water features, or other location subject to Article 680 of the California Electric Code need not be high efficacy luminaires.

150(k)14: Internally illuminated address signs shall comply with Section 148; OR not contain a screw-base socket, and consume no more than five watts of power as determined according to 130(d).

150(k)1 : Lighting for parking lots and carports with a total of for 8 or more vehicles per site shall comply with the applicable requirements in Sections 130, 132, 134, and 147. Lighting for parking garages for 8 or more vehicles shall comply with the applicable requirements of Sections 130, 131, 134, and 146.

150(k)16: Permanently installed lighting in the enclosed, non-dwelling spaces of low-rise residential buildings with four or more dwelling units shall be high efficacy luminaires.

EXCEPTION: Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by an occupant sensor(s) certified to comply with the applicable requirements of 119.

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MICROPAS8 ENERGY USE SUMMARY

End Use	kTDV/ft2-yr Stand. Design	Prop. Design	Margin	Percent Improve	CPUC kW Stand. Design	Prop. Design	Margin	Percent Improve
Space Heating...	38.01	33.73	4.28	11.3%	0.00	0.00	0.00	0.0%
Space Cooling...	31.16	20.69	10.47	33.6%	4.12	2.40	1.72	41.6%
Ventilation Fans	0.68	0.68	0.00	0.0%	0.00	0.00	0.00	0.0%
Water Heating...	17.22	16.03	1.19	6.9%	0.00	0.00	0.00	0.0%
Total	87.07	71.13	15.94	18.3%	4.12	2.40	1.72	41.6%

End Use	Therms Stand. Design	Prop. Design	Margin	Percent Improve	kWh Stand. Design	Prop. Design	Margin	Percent Improve
Space Heating...	526	452	74	14.1%	470	693	-223	-47.4%
Space Cooling...	0	0	0	0.0%	2502	1608	894	35.7%
Ventilation Fans	0	0	0	0.0%	151	151	0	0.0%
Water Heating...	278	259	19	6.9%	0	0	0	0.0%
Total	805	711	93	11.6%	3122	2451	671	21.5%

CALIFORNIA ADVANCED HOMES INCENTIVE CALCULATION

Project Type..... 2013 Single Family Detached
Total Floor Area..... 3083 ft2
Number of Dwelling Units..... 1
Number of Bedrooms..... 4
Total Percent Above Code..... 18.3% (15% minimum for base incentive)
Cooling Percent Above Code... 33.6% (30% minimum for NSHP Tier II)

Electricity Incentive.....	$ 0.52	/kWh	x	671	kWh	= $	349
Demand Incentive.....	$ 91.50	/kW	x	1.72	kW	= $	157
Natural Gas Incentive.....	$ 2.09	/Therm	x	0	Therms	= $	0
Base Incentive.....						= $	506
Energy Star Incentive.....	0%		x $	506	Base	= $	0
Green Home Incentive.....	0%		x $	506	Base	= $	0
Compact Home Incentive.....	0%		x $	506	Base	= $	0
Photovoltaic Incentive.....	$ 0.00	/kW	x	0.10	DC kW	= $	0
NSHP Tier II Incentive.....	$ 0	/unit	x	1	units	= $	0
2013 Code Incentive.....	$ 0	/unit	x	1	units	= $	0
Total Incentive for front facing 0 deg.....						= $	506

Project Title..... Wooley Residence/13US101E Date..12/11/13 14:28:31
Project Address..... 3946 Barbados Ct ******
Chico, Ca 96073 *v8.1*
Documentation Author... Kimberly Barber ******
5 Starr Energy
5232 Shasta Dam Blvd. Ste. F
Shasta Lake, CA 96019
530-275-3350
Climate Zone..... 11
Compliance Method..... MICROPAS8 v8.1 for 2008 CEC Standards (r04)

Building Permit #

Plan Check / Date

Field Check/ Date

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User#-MP1628 User-5 Starr Energy Run-United Sun Energy/13US101E

GENERAL INFORMATION

Floor Area..... 3083 sf
Volume..... 29993 cf
Front Orientation..... Front Facing 0 deg (N)
Sizing Location..... CHICO EXP STA
Latitude..... 39.7 degrees
Winter Outside Design..... 22 F
Winter Inside Design..... 70 F
Summer Outside Design..... 100 F
Summer Inside Design..... 75 F
Summer Range..... 37 F
Interior Shading Used..... Yes
Exterior Shading Used..... Yes
Overhang Shading Used..... Yes
Latent Load Fraction..... 0.19

HEATING AND COOLING LOAD SUMMARY

Description	Heating (Btu/hr)	Cooling (Btu/hr)
Opaque Conduction and Solar.....	27174	8123
Glazing Conduction and Solar.....	8591	11670
Infiltration.....	11153	3556
Internal Gain.....	n/a	2750
Ducts.....	7661	4108
Sensible Load.....	54579	30206
Latent Load.....	n/a	6017
Minimum Total Load	54579	36223

Note: The loads shown are only one of the criteria affecting the selection of HVAC equipment. Other relevant design factors such as air flow requirements, outside air, outdoor design temperatures, coil sizing, availability of equipment, oversizing safety margin, etc., must also be considered. It is the HVAC designer's responsibility to consider all factors when selecting the HVAC equipment.

NSHP-1

RESERVATION APPLICATION FORM NEW SOLAR HOMES PARTNERSHIP

1. Applicant Name and Contact Information

Homeowner or Builder/Developer Name	Phone Number	Email Address
SCOT WOOLLEY	303 325 1989	SaWoolley@me.com

Please check one of the following:

I am the: [X] Homeowner [ ] Builder/Developer

Mailing Address	City:	State:	Zip Code:
3946 BARBADOS CT	CHICO	CA	95973

Contact Name (if different from above) & Company	Address	Phone, Fax and Email Address
Kim Barber-5 Starr Energy Corp	835 Remor St. Redding, CA 96002	energytesting@hotmail.com p-530-275-3350 f-530-275-3352

2. Project Description

Please give a general project description including the site address of development.

Name of project: WOOLLEY RESIDENCE

Address where the system will be installed (if this is a housing development, only the city or location to nearest city needs to be specified): 3946 BARBADOS CT, CHICO CA 95973

Please check all that apply to your project:

Occupancy type: [X] Single Family [ ] Multifamily [ ] Mixed-Use [ ] Nonresidential

Project type:
- [ ] Solar as Standard (More than 50 percent of the residential dwelling units in a large project (minimum of 6 residential dwelling units) will have solar energy systems installed)
- [X] Custom home
- [ ] Small housing developments with less than 6 residential units
- [ ] Projects where solar will be installed on less than 50 percent of the residential dwelling units
- [ ] Common area systems in residential developments
- [ ] Solar as an Option (Please note, if solar is offered as an option, your reservation can only be for up to 50 percent of the residential dwelling units in the project)

Total number of residential dwelling units in the project: 1
Total number of residential dwelling units with solar energy systems installed: 1

- [ ] Affordable Housing
  - [ ] Total number of common areas systems installed: _____
  - [ ] Total number of residential dwelling units with solar energy systems installed: _____

Will your system be Virtual Net Metered (VNM)? [ ] Yes [X] No

If yes, please provide the system generation allocation percentages:
- [ ] Residential Dwelling Units: _____
- [ ] Affordable Housing Residential Dwelling Units: _____
- [ ] Common Areas: _____

Please note that only Solar as Standard, affordable housing, and solar as an option projects will receive a 36-month reservation. All others will receive an 18-month reservation.

For custom home applicants to complete
Anticipated new construction permit issue date(s): 8/28/13

Anticipated solar permit issue date(s): 11/23/13 Anticipated occupancy permit issue date(s): 6/19/13

Please note that the building permit for the solar energy system should be approved by the building code enforcement agency prior to the original occupancy of the newly constructed building, but no later than 180 days after the issuance of the occupancy permit.

3. Electric Utility, Participation in Utility's Energy Efficiency Program

Please select the utility providing electricity to the project: [X] PG&E [ ] SCE [ ] SDG&E [ ] BVE

Is your project participating in the electric utility's new construction energy efficiency program? [ ] Yes [X] No

Please note that projects participating in the electric utility's new construction energy efficiency program will not need to submit the NSHP energy efficiency documentation.

4. Home Energy Rating System (HERS) Information[1]

	HERS Rater Company	HERS Rater	Phone number	HERS Provider
Energy efficiency measures verification	1 stop Energy Consulting	Kim Barber	530-365-4777	CHEERS
Solar energy system field verification	1 Stop Energy Consulting	Kim Barber	530-365-4777	CHEERS

5. Supporting Documentation Required for Application Submittal

All Projects:

- [X] Final Subdivision Map or Building Permit
- [X] EPBB Documentation
  - [X] CF-1R-PV form
  - [X] Electronic input files (.emf, .hcr)
- [X] Equipment Purchase Agreement*
- [X] Installation Contract (if separate from the equipment purchase agreement)
- [X] Energy Efficiency Documentation**
  - [X] CF-1R form
  - [X] Electronic input file (.bld/.mp7, .mp8)
  - [X] Construction plan set***

Additional Requirements for:

Affordable Housing Projects:

- [ ] Regulatory Agreement

Solar as Standard Projects:

- [ ] Build-Out Schedule

Solar as an Option Projects:

- [ ] Build-Out Schedule

Affordable Housing Projects. TCAC projects have up to 60 days after funding approval to submit the Energy Efficiency Documentation.

**In the case of lease or PPA projects, an installation contract with equipment listed shall replace the equipment purchase agreement.*

***Waived if participating in a utility new construction energy efficiency program*

****See Appendix C for document requirements.*

6. Other Terms and Conditions

- Builder/Developer is aware that initial energy efficiency measure verification may need to be completed early in the construction process. Energy efficiency measures requiring early verification include, but are not limited to:
  - Quality Installation of Insulation (QII)
  - Special Features*
- Builder/Developer is aware that all NSHP Energy Efficiency verification requirements must be completed in order to receive NSHP incentives. Required energy efficiency verifications include, but are not limited to:
  - Envelope Assembly (Wall, Roof)
  - Fenestration Surface Details
  - HVAC System Details- Heating and Cooling
  - Water Heating
  - Special Features*

*Please see Appendix C, Section C for more information on special features measures requiring verification.

7. Declaration

The undersigned party declares under penalty of perjury that the information in this form and the supporting documentation submitted herewith is true and correct to the best of his or her knowledge and acknowledges the following program requirements to reserve funding:

- Incentives are based on the expected performance of the systems installed.
- Buildings must achieve at a minimum Tier I Energy Efficiency to be eligible for the program.
- Systems that are leased or provide electricity under a power purchase agreement are subject to special reporting requirements. Applicant may be required to repay some or all of the NSHP funding he or she receives if the system is leased or provides electricity through a power purchase agreement, and the lease agreement or power purchase agreement is terminated within five years of the system's installation or the start date of the agreement, whichever is later.

The undersigned party further acknowledges that he or she is aware of the requirements and conditions of receiving funding under the New Solar Homes Partnership (NSHP) and agrees to comply with all such requirements and conditions as provided in the Energy Commission's NSHP Guidebook, Fourth Edition, Overall Program Guidebook, and Building Energy Efficiency Standards (Title 24, Part 6) as a condition to receiving funding under the NSHP. The undersigned party authorizes the Energy Commission, during the term of the NSHP, to exchange information on this form with the applicable electric utility servicing the project to verify compliance with NSHP requirements.

[1] This information is used to upload the project information to the HERS Provider data registry.

Signature, Assignment of Administrative Rights and Incentive Recipient Information

(Optional)
☒ I, the applicant, designate Kim Barber as my authorized representative for the New Solar Homes Partnership program. This party is permitted to sign the NSHP-2(s) and any EPBI Documentation on this project on my behalf.

Designated Payee of NSHP Incentive:	SCOT WOOLLEY
Payee's Address:	3946 BARBADOS CT, CHICO CA 95973

Homeowner or Builder/Developer Name:	SCOT WOOLLEY	Date:	11/27/13
Signature:		Title:	OWNER

Instructions for STD-204
Vendor Data Record

The State of California requires that all parties entering into business transactions that may lead to payment(s) from the State provide their Taxpayer Identification Number (TIN) as required by the State Revenue and Taxation Code, Section 18646, and Internal Revenue Code, Section 6109. This form must be on file with the Energy Commission in order for any payments to be made. If you have any questions about this form, please contact the California Franchise Tax Board at 1-800-852-5711. Following are instructions on filling out STD-204:

1. **Return Form To** – Already completed by the Energy Commission.

2. **Vendor Information** – Please enter your business name and address; if you are a sole proprietor, enter the owner's full name.

3. **Vendor Entity Type** – Please check the appropriate box.

4. **Vendor's Taxpayer ID Number** – Please enter your federal ID number. If you are an individual/sole proprietor, please enter your social security number.

5. **Vendor Residency Status** – Please check the appropriate box corresponding to your residency status.

6. **Registering Signature** – The registration must be signed by an authorized representative or officer such as the Chief Executive Officer or Chief Financial Officer of the corporation, or a similar officer with authority to bind the company.

STATE OF CALIFORNIA-DEPARTMENT OF FINANCE

PAYEE DATA RECORD

(Required when receiving payment from the State of California in lieu of IRS W-9)

STD 204 (Rev. 6 2009)

1

INSTRUCTIONS: Complete all information on this form. Sign, date, and return to the State agency (department/office) address shown at the bottom of this page. Prompt return of this **fully completed** form will prevent delays when processing payments. Information provided in this form will be used by State agencies to prepare Information Returns (1099). See reverse side for more information and Privacy Statement.

NOTE: Governmental entities, federal, State, and local (including school districts), are not required to submit this form.

2

PAYEE'S LEGAL BUSINESS NAME (Type or Print)

SOLE PROPRIETOR – ENTER NAME AS SHOWN ON SSN (Last, First, MI): WOOLLEY SCOT A

E-MAIL ADDRESS: SaWoolleyeme.com

MAILING ADDRESS: 3946 BARBADOS CT

BUSINESS ADDRESS:

CITY, STATE, ZIP CODE: CHICO CA 95973

CITY, STATE, ZIP CODE:

3

PAYEE ENTITY TYPE

CHECK ONE BOX ONLY

ENTER FEDERAL EMPLOYER IDENTIFICATION NUMBER (FEIN): | | | - | | | | | | | |

- ☐ **PARTNERSHIP**
- ☐ **ESTATE OR TRUST**
- **CORPORATION:**
  - ☐ **MEDICAL** (e.g., dentistry, psychotherapy, chiropractic, etc.)
  - ☐ **LEGAL** (e.g., attorney services)
  - ☐ **EXEMPT** (nonprofit)
  - ☐ **ALL OTHERS**
- ☒ **INDIVIDUAL OR SOLE PROPRIETOR ENTER SOCIAL SECURITY NUMBER:** 521-33-0163

(SSN required by authority of California Revenue and Tax Code Section 18646)

NOTE: Payment will not be processed without an accompanying taxpayer I.D. number.

4

PAYEE RESIDENCY STATUS

- ☒ California resident - Qualified to do business in California or maintains a permanent place of business in California.
- ☐ California nonresident (see reverse side) - Payments to nonresidents for services may be subject to State income tax withholding.
  - ☐ No services performed in California.
  - ☐ Copy of Franchise Tax Board waiver of State withholding attached.

5

I hereby certify under penalty of perjury that the information provided on this document is true and correct. Should my residency status change, I will promptly notify the State agency below.

AUTHORIZED PAYEE REPRESENTATIVE'S NAME (Type or Print): SCOT WOOLLEY

TITLE: OWNER

SIGNATURE: [signature]

DATE: 11/27/13

TELEPHONE: (303) 325 1989

6

Please return completed form to:

Department/Office: California Energy Commission

Unit/Section: Emerging Renewables Program

Mailing Address: 1516 Ninth Street, MS 31

City/State/Zip: Sacramento, CA 95814-5512

Telephone: (___) N/A **Fax:** (___) N/A

E-mail Address: N/A

STATE OF CALIFORNIA-DEPARTMENT OF FINANCE

PAYEE DATA RECORD

STD. 204 (Rev. 6-2003) (REVERSE)

1	**Requirement to Complete Payee Data Record, STD. 204** A completed Payee Data Record, STD. 204, is required for payments to all non-governmental entities and will be kept on file at each State agency. Since each State agency with which you do business must have a separate STD. 204 on file, it is possible for a payee to receive this form from various State agencies. Payees who do not wish to complete the STD. 204 may elect to not do business with the State. If the payee does not complete the STD. 204 and the required payee data is not otherwise provided, payment may be reduced for federal backup withholding and nonresident State income tax withholding. Amounts reported on Information Returns (1099) are in accordance with the Internal Revenue Code and the California Revenue and Taxation Code.
2	Enter the payee's legal business name. Sole proprietorships must also include the owner's full name. An individual must list his/her full name. The mailing address should be the address at which the payee chooses to receive correspondence. Do not enter payment address or lock box information here.
3	Check the box that corresponds to the payee business type. Check only one box. Corporations must check the box that identifies the type of corporation. The State of California requires that all parties entering into business transactions that may lead to payment(s) from the State provide their Taxpayer Identification Number (TIN). The TIN is required by the California Revenue and Taxation Code Section 18646 to facilitate tax compliance enforcement activities and the preparation of Form 1099 and other information returns as required by the Internal Revenue Code Section 6109(a). The TIN for individuals and sole proprietorships is the Social Security Number (SSN). Only partnerships, estates, trusts, and corporations will enter their Federal Employer Identification Number (FEIN).
4	**Are you a California resident or nonresident?** A corporation will be defined as a "resident" if it has a permanent place of business in California or is qualified through the Secretary of State to do business in California. A partnership is considered a resident partnership if it has a permanent place of business in California. An estate is a resident if the decedent was a California resident at time of death. A trust is a resident if at least one trustee is a California resident. For individuals and sole proprietors, the term "resident" includes every individual who is in California for other than a temporary or transitory purpose and any individual domiciled in California who is absent for a temporary or transitory purpose. Generally, an individual who comes to California for a purpose that will extend over a long or indefinite period will be considered a resident. However, an individual who comes to perform a particular contract of short duration will be considered a nonresident. Payments to all nonresidents may be subject to withholding. Nonresident payees performing services in California or receiving rent, lease, or royalty payments from property (real or personal) located in California will have 7% of their total payments withheld for State income taxes. However, no withholding is required if total payments to the payee are $1,500 or less for the calendar year. For information on Nonresident Withholding, contact the Franchise Tax Board at the numbers listed below: Withholding Services and Compliance Section: 1-888-792-4900 E-mail address: wscs.gen@ftb.ca.gov For hearing impaired with TDD, call: 1-800-822-6268 Website: www.ftb.ca.gov
5	Provide the name, title, signature, and telephone number of the individual completing this form. Provide the date the form was completed.
6	This section must be completed by the State agency requesting the STD. 204.
	Privacy Statement Section 7(b) of the Privacy Act of 1974 (Public Law 93-579) requires that any federal, State, or local governmental agency, which requests an individual to disclose their social security account number, shall inform that individual whether that disclosure is mandatory or voluntary, by which statutory or other authority such number is solicited, and what uses will be made of it. It is mandatory to furnish the information requested. Federal law requires that payment for which the requested information is not provided is subject to federal backup withholding and State law imposes noncompliance penalties of up to $20,000. You have the right to access records containing your personal information, such as your SSN. To exercise that right, please contact the business services unit or the accounts payable unit of the State agency(ies) with which you transact that business. All questions should be referred to the requesting State agency listed on the bottom front of this form.