DOCKETED				
Docket Number:	19-BSTD-02			
Project Title:	Residential Alternative Calculation Method Variable Capacity Heat Pump Modeling Approach			
TN #:	231023			
Document Title:	Steve Uhler Comments - BSTD-19-02 SEER 14 rating and Title 20 1606(h)(1)(C)(3)(b)			
Description:	N/A			
Filer:	System			
Organization:	Steve Uhler			
Submitter Role:	Other Interested Person			
Submission Date:	12/9/2019 4:34:47 PM			
Docketed Date:	12/9/2019			

Comment Received From: Steve Uhler Submitted On: 12/9/2019 Docket Number: 19-BSTD-02

## BSTD-19-02 SEER 14 rating and Title 20 1606(h)(1)(C)(3)(b)

BSTD-19-02 SEER 14 rating and Title 20 1606(h)(1)(C)(3)(b)

CVRH Project Findings, found, VCHP system evaluation findings from the 2014-2018 studies include: SEER and HSPF ratings do not reliably predict the field installed energy performance of VCHP systems.

This appears to indicate that the testing methods preformed by AHRI to produce the information required by Title 20 section 1606(h) are not up to the standard of true, complete, accurate, and in compliance with all applicable provisions of Article 4. Appliance Efficiency Regulations.

The rulemaking under docket 19-BSTD-02 has set SEER to 14 for all VCHP systems regardless of AHRI rating.

This appears to place these VCHP systems in the ineligible category for rebates for fuel switching.

See attached rebate form for the requirement of SEER 16 or greater.

This rulemaking directly effects the public in choosing the type of system allowed on the rebate form.

Has the Energy Commission evaluated the effect of this rulemaking on those directly effected by the rulemaking as required by Chapter 3.5 (commencing with Section 11340) of Part 1 of Division 3 of Title 2 of the Government Code?

Steve Uhler sau@wwmpd.com

Additional submitted attachment is included below.

# 2019 Residential HVAC Rebate Application

	FORMS I	LISTED BE	LOW MUST BE SUBM	ITTED FOR	ALL REBATE A	<b>PPLICATIONS</b>		
<ul> <li>Copy of contract work</li> <li>Proof of product being installed (may be listed on contract, equipment stickers, packing slip, photo of nameplates)</li> <li>AHRI Number and Certificate</li> </ul>			ract, equipment	<ul> <li>Building Permit and ID</li> <li>Copy of CF-3R HERS forms</li> <li>Photo of old unit (If gas conversion, must show gas line removed/capped)</li> <li>Photo of new unit installed</li> </ul>				
SMUD ACCOUNT N	UMBER (at installation addre	ess)	APPLICANT IN	IFORMATIC	DN			
CUSTOMER/PURCH.	ASER NAME (check payable	e to)		TENANT N	TENANT NAME (if different)			
MAILING ADDRESS (check to be mailed to)			INSTALLAT	INSTALLATION ADDRESS (if different)				
CITY / STATE / ZIP CODE (check to be mailed to)			CITY / STAT	CITY / STATE / ZIP CODE				
EMAIL ADDRESS				EMAIL ADI	DRESS			
HOME PHONE ( )		WORK PHC		( )	OME PHONE	TENANT WORK PH	IONE	
			SYSTEM REPLAC					
	c Heat Pump Upgrade 3\$1,500 rebate		A/C with Gas Furnace Upgrade \$1,500 rebate		de	Gas Furnace to Heat Pump Upgrade		
			PRODUCT REC	QUIREMEN	ГS			
	Sp	lit & Mini Sp	lit System ( <u>1)</u>			Packaged System		
A/C	<ul> <li>≥ 16 SEER</li> <li>≥ 2-stage compressor</li> </ul>				≥ 15 SEER ≥ 2-stage compr	ressor		
Furnace          • ≥ 90% AFUE          • Sealed combustion ②         • Sealed CVA vents ③			•	≥ 80% AFUE				
Heat pump       • ≥ 8.2 HSPF         • ≥ 2-stage compressor				• $\geq$ 8.0 HSPF • $\geq$ 2-stage compressor				
All Air Handlers • ECM (4) blower motor as required by Title 24			•	ECM blower motor as required by Title 24				
<ul> <li>Must pass Title 24, via HERS CF3R and/or</li> <li>If new ductwork is installed it must be insulated to &gt;=R-8</li> </ul>				<ul> <li>Must pass Title 24, via HERS CF3R and/or</li> <li>If new ductwork is installed it must be insulated to &gt;=R-8</li> </ul>				
Thermostat	<ul><li>Wi-Fi Enabled</li><li>7-Day Programmable</li></ul>				<ul><li>Wi-Fi Enabled</li><li>7-Day Programmable</li></ul>			
(2) Combustion air from (3) Existing CVA vents m	ce entire home. Equipment st the outside sust be sealed unless another Commutated (i.e. variable sp	combustion ap	pliance is present					
Turne			HVAC INFO	ORMATION t Information			Efficiency Data	
Туре	MANUFACTURER		Froduc				SEER	
Package Split			JNIT MODEL NO. AC COIL BRAND			EER		
A/C Heat Pump FURNACE / FAN COIL MODEL NO.			AC COIL / HP INDOOR UNIT MODEL NO.		HSPF			
PERMIT NO.			PER	MIT DATE EQUIPMEN	T INSTALLED			
TERMITING.								
CONTRACTOR / SUPPLI				EMAIL ADDRESS				
MAILING ADDRESS					LICENSE NUMBER			
CITY / STATE / ZIP COD	E				BUSINESS PHONE			

# 2019 Residential HVAC Rebate Application - Continued

AVMENT DELEASE AUTHODIZATION /to bo

		OF COMPLETION	
I	NOTE: DO NOT SIGN UN	TIL INSTALLATION IS COMPLETED	
	s and Conditions set forth	s(s) that meet the eligibility requirements set for by SMUD. (3) I declare under penalty of perjury ct.	•
CONTRACTOR SIGNATURE	DATE	CUSTOMER OR HOMEOWNER SIGNATURE	DATE

Please also refer to the Sales Terms, Conditions and Responsibilities				
Authorized by: SMUD account holder (print)				
Customer Signature:		Date:		
Check made payable to:				
Payee mailing address:		Apt. Unit #:		
City:	State:	Zip Code:		
If payee is a business, please provide either the in the appropriate space below.	e Employee Identification Number (EIN)/Feo	deral Tax ID or Social Security Number		

#### POST INSTALLATION ENERGY SAVINGS FOLLOW UP

Check this box and include email below if you would like to receive a post-installation energy savings follow up from a SMUD Energy Advisor. We will look at usage patterns and help you align usage/times that maximize effiency of the HVAC system and time of day pricing. Your email address will not be used for anything else.

Email: \_\_

 DSM AGMNT#
 APPROVED
 DENIED
 SCANNED
 INITIALS
 DATE LETTER SENT



## **Program Terms and Conditions**

### Qualified Equipment / Rebate Eligibility

- 1. Rebates are based on Tier levels as described under Rebate Information on the front of this rebate application. Equipment installed must meet required efficiency levels for both SEER, and HSPF for heat pumps.
- Rebates are available until funding is exhausted. SMUD expressly reserves the right to modify, amend or terminate the Residential HVAC Rebate Program in whole or in part, at any time and for any reason without prior notice. Visit smud.org/HVAC, call 916-732-5732, or email <u>AdvancedHomeSolutions@smud.org</u> to obtain current rebate program information.
- 3. Rebate application must be received within 180 days of purchase. Rebate amount is based on the program offering and funding levels.
- 4. Residence must have active SMUD residential electric service at time of application. Newly constructed subdivision homes built by developers do NOT qualify. Do-it-yourself installations do NOT qualify.
- 5. Installation must be permitted. Customer is solely responsible for obtaining related building permits and completing the inspection process as required by local jurisdiction.
- 6. Contractor performing work must possess active C-20 license (Heating, Air Conditioning & Ventilation / HVAC).
- 7. SMUD reserves the right to inspect installation premise or request additional information / documentation prior to or after rebate payment.

#### **SMUD** Disclaimer of Warranties

SMUD makes no representation expressed or implied, regarding the design, installation, construction, reliability, efficiency, performance, operation, maintenance, or use of any HVAC system analyzed, discussed, selected or rejected, installed or otherwise considered by the residential building owner or HVAC contractor. Any decisions regarding the selection of the design, installation, construction, reliability, efficiency, performance, operations, maintenance, or use of any HVAC system shall be made at the sole discretion and are the sole responsibility of the residential building owner or HVAC contractor.

#### Building Owner's Selection of HVAC Product and/or System

Building owner understands and agrees that there are a multitude of HVAC products and systems, and in no way does SMUD assume any responsibility for the HVAC product and/or system ultimately selected by building owner and/or HVAC contractor and/or installed by HVAC contactor. It is the building owner's discretion to select the HVAC products and/or system.

#### SMUD is not a Party

Residential building owner understands and agrees that SMUD is not a party to any HVAC installation contract entered into between building owner and contractor, and building owner agrees to hold harmless SMUD for any and all liability, loss, cost, or damage of every kind, nature or description arising out of such a contract, or any SMUD on-site verification of the installation of an HVAC system and/or product. Building owner further understands that SMUD does not guarantee energy or bill savings as a result of the installation of this equipment.

#### Indemnity

Residential building owner shall indemnify, defend, and hold harmless SMUD, its directors, officers, agents, and employees against all claims, loss, damage, expense, and liability asserted or incurred by other parties, including, but not limited to SMUD's employees, arising out of or in any way connected with the performance of this rebate program and excepting only such loss, damage, or liability as may be caused by the intentional acts or the sole negligence of SMUD.

### SALESPERSON TERMS, CONDITIONS and RESPONSIBILITIES (in addition to aforementioned)

- Tax liability: rebates are taxable if greater than \$600 and will be reported to the Internal Revenue Service (IRS). SMUD will report your rebates as income received on IRS Form-1099. Consult your tax advisor concerning taxability of incentives. SMUD is not responsible for any taxes imposed upon you as a result of this incentive payment.
- 2. Model number of the equipment installed (see Program Terms and Conditions, item 3 above) must be listed on the contract/bid, sales receipt or invoice, and on rebate form.
- 3. Attach IRS Form W-9 (Request for Taxpayer ID). Not necessary to resubmit Form W-9 after first application submission.

Mail completed rebate application along with required documents to the following address:

#### Sacramento Municipal Utility District

Residential Equipment Efficiency Program, MS A203

- P O Box 15830
- Sacramento CA 95852-0830

Or email documents to: rebate.center@smud.org

Important: Applicants are advised to retain a copy of this form and copies of all attachments submitted to SMUD for your records. Please allow four to six weeks for SMUD to process and mail your rebate check.

