

CALIFORNIA ENERGY COMMISSION

CEC-NRCV-PLB-22-H

SAMPLE FORM – NOT VALID FOR SUBMISSION TO BUILDING DEPARTMENTS

CERTIFICATE OF VERIFICATION

Note: This table completed by HERS Registry.

Project Name:	Enforcement Agency:
Project Address:	Permit Number:
City and Zip Code:	Permit Application Date:

A. Design HERS Verified Dwelling Unit Water Heating Systems Information (other than HPWH)

This table reports features of the water heating system(s) other than **HPWH** system specified on the registered NRCC compliance document for this project.

-0				•	,				- A -	0 35 10	
01	02	03	04	05	06	07	08	09	10	11	12
				# of Like				-01		0.	
	Water			(or				G	Dwelling		
	Heating	Water		Identical)			1.1.1		Unit DHW		Drain
Dwelling	System	Heating	Water	Water		Rated	Rated	Central DHW	System		Water
Unit	ID or	System	Heater	Heaters in	Fuel	Input	Input	System	Distribution	Compact	Heat
Name	Name	Туре	Туре	System	Туре	Туре	Value	Distribution	Туре	Distrib.	Recovery

A2. Design HERS Verified Dwelling Unit HPWH System Information

This table reports the water heating system(s) that were specified on the registered NRCC compliance document for this project.

09	09	08	07	06	05	04	03	02	01
			76.		1.	# of Like (or			
			Dwelling Unit	Exterior	1/2	Identical)	Modeled	Water	
ulated	Simulat		DHW System	Tank	Sec.	Water	Equipment	Heating	
ent Make	Equipment	Compact	Distribution	Insulation	170	Heaters in	Make and	System ID	Dwelling
Model	and Mo	Distribution	Туре	R-value	Tank Location	System	Model	or Name	Unit Name
ent	Equipment		DHW System Distribution	Tank Insulation	Tank Location	Water Heaters in	Equipment Make and	Heating System ID	0

B. Installed HERS Verified Dwelling Unit Water Heating Systems Information

This table reports features the water heating system other than **HPWH** systems installed in this project.

01	02	03	04	05	06	07	08	09	10	11	12
	Water	· · · · · ·	2	# of Like (or	~				Dwelling		
	Heating	Water	·	Identical)	\sim				Unit DHW		Drain
Dwelling	System	Heating	Water	Water	P	Rated	Rated	Central DHW	System		Water
Unit	ID or	System	Heater	Heaters in	Fuel	Input	Input	System	Distribution	Compact	Heat
Name	Name	Туре	Туре	System	Туре	Туре	Value	Distribution	Туре	Distrib.	Recovery

B2. Installed HERS Verified Dwelling Unit HPWH System Information

This table reports the water heating system(s) installed in this project.

	·	-	, , ,					
01	02	03	04	05	06	07	08	
0,	21							
\sim								
			# of Like (or					
	Water	Modeled	Identical)					
	Heating	Equipment	Water		Exterior Tank	Dwelling Unit		
Dwelling Unit	System ID	Make and	Heaters in		Insulation R-	DHW System		
Name	or Name	Model	System	Tank Location	value	Distribution Type	Compact Distribution	



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C. Design HERS Verified Dwelling Unit Water Heating Efficiency Information

This table reports the water heater(s) efficiency features specified on the registered NRCC compliance document for this project. (Not needed for central systems)

				, ,		
01	02	03	04	05	06	07
Water Heating	Heating	Heating		Exterior	Water Heater	
System ID or	Efficiency	Efficiency	Standby Loss	Insulation	Storage	
Name	Туре	Value	(%)	R-Value	Volume (gal)	Tank Location

D. Installed HERS Verified Dwelling Unit Water Heating Efficiency Information

This table reports the water heater(s) efficiency features installed in this project. (Not needed for central 10. systems)

, ,						
01	02	03	04	05	06	07
Water Heating	Heating	Heating	Standby	Exterior	Water Heater	·
System ID or	Efficiency	Efficiency	Loss	Insulation	Storage	
Name	Туре	Value	(%)	R-Value	Volume (gal)	Tank Location

E. Installed Water Heater Manufacturer Information

01	02	03
Water Heating		
System ID or Name	Manufacturer	Model Number
. 10	ormation un	s provider



F. Mandatory Measures for all Domestic Hot Water Distribution Systems

1.1010	datory Measures for all Domestic Hot Water Distribution Systems
01	Equipment shall meet the applicable requirements of the Appliance Efficiency Regulations (Section 110.3(b)1).
02	Unfired storage tanks are insulated with an external R-3.5 or combination of R-16 internal and external Insulation. (Section 110.3(c)4).
03	 All domestic hot water piping shall be insulated as specified in Section 609.11 of the California Plumbing Code. Insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve. Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration.Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall butt securely against all framing members. Piping installed in interior or exterior walls that is surrounded on all sides by at least 1 inch (2.5 cm) of insulation. Piping installed in crawlspace with a minimum of 1 inches (2.5 cm) of crawlspace insulation above and below. Piping installed in attics with a minimum of 4 inches (10 cm) of attic insulation on top. Pipe insulation shall fit tightly and all elbows and tees shall be fully insulated.
04	 For Gas or Propane Water Heaters: Ensure either a or b are installed (Section 150.0(n)) a) designated space at least 2.5 feet by 2.5 feet and 7 feet tall within 3 feet from the water heater A dedicated 125V, 20A electrical receptacle connected to the electric panel with a 120/240V 3 conductor, 10 AWG copper branch circuit, within 3 feet from the water heater and is accessible with no obstructions; The conductor shall be labeled with the word "Spare" on both ends; and A reserved single pole circuit breaker space next to the circuit breaker next to the branch circuit labeled "Future" 240V shall be provided. A condensate drain no more than 2 inches higher than the base on water heater for natural draining. b) A designated space at least 2.5 feet by 2.5 feet and 7 feet tall more than 3 feet from the water heater A dedicated 240 volt branch circuit shall be installed within 3 feet from the designated space. The b) A designated space at least 2.5 feet at 30 amps minimum. The blank cover shall be identified as "240V ready"; and The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future HPWH installation. The reserved space shall be permanently marked as "For Future 240V use"; and Either a dedicated cold water supply, or the cold water supply shall pass through the designated HPWH location just before reaching the gas or propane water heater; and The hot water supply pipe coming out of the gas or propane water heater shall be routed first through the designated HPWH location shall be exposed and readily accessible for future installation of a HPWH; and A condensate drain no more than 2 inches higher than the base of the installed water heater, and allows natural draining without pump assistance.

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.



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G. HERS-Verified Compact Hot Water Distribution Expanded Credit (CHWDS-H-EX) (RA3.6.5)

For dwelling units with multiple systems, enter the master bath distance and kitchen distance to the closest water heater, and enter the average of the furthest fixture to each water heater.

01		02	03	04	05	06	07	08	09				
Dwell Nam	0	Number of Stories	Master Bath distance of furthest fixture to Water Heater in feet	Kitchen distance from furthest fixture to Water Heater in feet	Furthest Third furthest fixture to Water Heater in feet (Avg for multiple water heaters)	Weighted Distance	Qualification Distance	Design Compactness Factor	Calculated Compactness Factor				
08	No h	not water pipi	ng >1 inch diamet	er is allowed.	1 1		CO.	1 20					
09	Leng	gth of 1 inch d	iameter piping is	limited to 8 feet or	r less.	. 0	~	0					
10	Two and three story buildings cannot have hot water distribution piping in the attic, unless the water heater is also located in the attic.												
11	Eligil	Eligible recirculating systems must be HERS-Verified Demand Recirculation: Manual Control conforming to RA4.4.17.											

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

H. Compact Hot Water Distribution (CHWDS) (RA4.4.6)

For dwelling units with multiple systems, enter the master bath distance and kitchen distance to the closest water heater, and enter the average of the furthest fixture to each water heater

01	02	03	04	05	06	07	08	09
Dwelling Name	Number of Stories	03 Master Bath distance of furthest fixture to Water Heater in feet	Kitchen distance from furthest fixture to Water Heater in feet	Furthest Third furthest fixture to Water Heater in feet (Avg for multiple water heaters)	Weighted Distance	Qualification Distance	Design Compactness Factor	Calculated Compactness Factor
- 0		22						

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.



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I. HERS-Verified Drain Water Heat Recovery System (DWHR-H) (RA3.6.9)

DWHR devices shall comply with these requirements.

Design DWHR Syst	tem Information									
01		02	03		04					
System ID/Name	Rated Ef	fectiveness	Installation Co	nfiguration	Percent of shower se devi	•				
Installed DWHR Sv	/stem Information					0				
05	06	07	08	09	10	11				
System ID/Name	Manufacturer	Model Number	Rated Effectiveness	Installatior Configuratic		DWHR System Certified by CEC (Yes/No)				
12	ι,	0 0	0,		t the minimum, recover h hower(s) or the water he					
13	bathroom shower and must transfer that heat either back to the respective shower(s) or the water heater.For central water heating system serving multiple dwellings, the DWHR system shall, at the minimum, recover heat from half the showers located above the first floor and must transfer that heat either back to all the respective showers or the water heater.									
14		nall be installed withir The lateral level tolera	-		d DWHR shall have a min degree.	imum lengthwise				

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

J. HERS-Verified Pipe Insulation Credit Requirements (PIC-H) (RA3.6.3)

Systems that utilize this distribution type shall comply with these requirements.

01 HERS rater shall perform a visual inspection that all hot water piping complies with the insulation requirements in 150.0(J).

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

K. HERS-Verified Parallel Piping Requirements (PP-H) (RA3.6.4)

Systems that utilize this distribution type shall comply with these requirements.

01	Each central manifold has 5 feet or less of pipe between manifold and water heater.
02	For manifolds that include valves, the manifold must be readily accessible in accordance with the plumbing code.
03	Hot water distribution system piping from the manifold to the fixtures and appliances must take the most direct path. For example, piping from a second story manifold cannot supply the first floor.
04	The hot water distribution piping must be separated by at least 2 inches from any other hot water supply piping, and at least 6 inches from any cold water supply piping. Alternatively, the hot water supply piping must be insulated to the thicknesses shown in Table 120.3-A.

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.



L. Parallel Piping Requirements (PP) (RA4.4.4)

Systems that utilize this distribution type shall comply with these requirements.

01	Each central manifold has 15 feet or less of pipe between manifold and water heater.
02	For manifolds that include valves, the manifold must be readily accessible in accordance with the plumbing code.
03	Hot water distribution system piping from the manifold to the fixtures and appliances must take the most direct path. For instance, piping from a second story manifold cannot supply the first floor.
04	The hot water distribution piping must be separated by at least 2 inches from any other hot water supply piping, and at least 6 inches from any cold water supply piping. Alternatively, the hot water supply piping must be insulated to the thicknesses shown in Table 120.3-A.

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

M. Point of Use Requirements (POU) (RA4.4.5)

Systems that utilize this distribution type shall comply with these requirement

	All hot water supply pipe run lengths are equal to or less than the maximum values shown below, based on the pipe diameter. If a combination of piping is used in a single run, then one half the allowed length of each size is the maximum installed length.
	The maximum allowed length of piping for the longest run terminating in:
	3/8 inch - For only one pipe size - max length allowed is 15 feet
01	For combination pipe sizes the max allowed length of 3/8-inch piping is 7.5 feet, of 1/2 inch piping is 5 feet, and 3/4 inch piping is 2.5 feet.
	1/2 inch - For only one pipe size – max length allowed is 10 feet
	For combination pipe sizes the allowed length of 1/2inch piping is 5 feet, and 3/4 inch piping is 2.5 feet.
	3/4 inch - For only one pipe size = 5 feet

The responsible person's signature on this compliance document affirms that all applicable requirements in

this table have been met.

N. Mandatory Requirements for all Recirculation Systems (RA4.4.7)

Systems that utilize a recirculation system shall comply with these requirements.

01 A check valve located between the recirculation pump and the water heater to prevent unintentional recirculation.

02 Piping must take the most direct path between water heater and fixtures.

Insulation is not required on the cold water line when it is used as the return. 03

If more than one loop is installed each loop shall have its own pump and controls. 04

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

O. Recirculation Non-Demand Controls Requirements (R-ND) (RA4.4.8)

Systems that utilize this distribution type shall comply with these requirements.

The active control shall be either: timer, temperature, or time and temperature. Timers shall be set to less than 24 hours. The temperature sensor shall be connected to the piping and to the controls for the pump.

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

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P. Demand Recirculation Manual Control (R-DRmc) (RA4.4.9)/Sensor Control (RDRsc) (RA4.4.10) Requirements

Systems that utilize either of these distribution types shall comply with these requirements.

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ins that utilize effect of these distribution types shall comply with these requirements.		
01	The system operates "on-demand", meaning that the pump begins to operate shortly before or immediately after hot water draw begins, and stops when the return water temperature reaches a certain threshold value. For Demand Recirculation Manual Control, the pump		
01	shall be turned on using a manual switch system. For Demand Recirculation Sensor Control, the pump shall be turned on using a sensor		
	system.		
02	The controls shall be located in the kitchen, bathroom, and any hot water fixture location that is at least 20 feet from the water heater.		
03	Manual controls may be active by wired or wireless mechanisms.		
04	Sensor controls may be activated by wired or wireless mechanisms, including buttons, motion sensors, door switches and flow switches. Each control shall have standby power of 1 Watt or less.		
05	 Pump and control placement shall meet one of the following criteria: When a dedicated return line has been installed the pump, controls and thermo-sensor are installed at the end of the supply portion of the recirculation loop; or The pump and controls are installed on the dedicated return line near the water heater and the thermo-sensor is installed in an accessible location as close to the end of the supply portion of the recirculation loop as possible; or When the cold water line is used as the return, the pump, demand controls and thermo-sensor shall be installed in an accessible location at the end of supply portion of the hot water distribution line (typically under a sink). 		
06	 After the pump has been activated, the controls shall allow the pump to operate until the water temperature at the thermo-sensor rise to one of the following values: Not more than 10°F (5.6°C) above the initial temperature of the water in the pipe; or Not more than 102°F (38.9°C). 		
07	Controls shall limit operation to no more than 5 minutes following activation.		

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

Q. HERS-Verified Demand Recirculation Manual Control (RDRmc-H) (RA3.6.6)/Sensor Control (RDRsc-H)

(RA3.6.7) Requirements

Systems that utilize this distribution type shall comply with these requirements

01 HERS rater shall perform a visual inspection to verify that the demand pump, manual/sensor controls and thermo-sensor are present and operating properly consistent with the applicable requirements of RA4.4.9 and RA4.4.10

The responsible person's signature on this compliance document affirms that all applicable requirements in

this table have been met.

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Verification documentation is accurate and complete.

1. I certify that this Certificate of Verification documentation is accurate and complete.		
Documentation Author Name:	Documentation Author Signature:	
Company:	Date Signed:	
Address:	CEA/HERS Certification Information (if applicable):	
City/State/Zip:	Phone:	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

- 2. I certify the following under penalty of perjury, under the laws of the State of California:
 - 1. The information provided on this Certificate of Verification is true and correct.
 - 2. I am the certified HERS Rater who performed the verification identified and reported on this Certificate of Verification (responsible rater).
 - 3. The installed features, materials, components, manufactured devices, or system performance diagnostic results that require HERS verification identified on this Certificate of Verification comply with the applicable requirements in Reference Nonresidential Appendices NA1 and NA2, and the requirements specified on the Certificate of Compliance for the building approved by the enforcement agency.
 - 4. The information reported on applicable sections of the Certificate(s) of Installation (NRCI), signed and submitted by the person(s) responsible for the construction or installation conforms to the requirements specified on the Certificate(s) of Compliance (NRCC) approved by the enforcement agency.
 - 5. I understand that a registered copy of this Certificate of Verification shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
 - 6. I understand that a registered copy of this Certificate of Verification is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish this requirement.

BUILDER OR INSTALLER INFORMATION AS SHOWN ON THE CERTIFICATE OF INSTALLATION

Company Name (Installing Subcontractor, General Contractor, or Builder/Owner):	
Responsible Builder or Installer Name:	CSLB License:

HERS PROVIDER DATA REGISTRY INFORMATION

Sample Group Number (if applicable):	Dwelling Test Status in Sample Group (if applicable):	

HERS RATER INFORMATION

HERS Rater Company Name:		
Responsible Rater Name:	Responsible Rater Signature:	
Responsible Rater Certification Number w/ this HERS Provider:	Date Signed:	

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300

NRCV-PLB-22-H User Instructions

A. Design HERS Verified Dwelling Unit Water Heating Systems Information

This table reports the water heating system features that were specified on the registered NRCC compliance document for this project. His section is for information/verification purposes only and requires no user input.

A1. Design HERS Verified Dwelling Unit HPWH System Information

This table reports the water heating system features that were specified on the registered NRCC compliance document for this project. This section is for information/verification purposes only and requires no user input.

B. Installed HERS Verified Dwelling Unit Water Heating Systems Information

This table reports the water heating system information that is being installed. Require one line for each installed water heater.

- 1. Dwelling Unit Name Reference information from Table A.
- 2. Water Heating System ID or Name Reference information from Table A.
- 3. Water Heating System Type Reference information from Table A. The different kinds of water heating system type are DHW, or Combined Hydronic.
- 4. Water Heater Type Reference information from Table A. The different kinds of water heaters are Large/Commercial Storage, Small/Consumer Storage, Residential-Duty Commercial Storage, Heat Pump, Boiler, Large/Commercial Instantaneous, Small/Consumer Instantaneous, Residential-Duty Commercial Instantaneous or Indirect.
- 5. # of Like (or Identical) Water Heaters in system Reference information from Table A.
- 6. Fuel Type Reference information from Table A. The different kinds of fuel types are heat pump, electric resistance, natural gas, and propane.
- 7. Rated Input Type Reference information from Table A. For natural gas and propane, the input type is Btu/hr. For heat pump and electric resistance, the input type is kW.
- 8. Rated Input Value User input. Numerical value of the rated input. Must be equal to or less than value indicated on the NRCC.
- 9. Central DHW System Distribution Reference information from Table A.
- 10. Dwelling Unit DHW System Distribution Type Reference information from Table A.
- 11. Compact Distribution Reference information from Table A.
- 12. Drain Water Heat Recovery Reference information from Table A.

B2. Installed HERS Verified Dwelling Unit HPWH System Information

This table reports the water heating system information that is being installed. Require one line for each installed water heater. Not applicable for central systems.

- 1. Dwelling Unit Name Reference information from Table C.
- 2. Water Heating System ID or Name Reference information from Table C. AFUE, UEF and Thermal Efficiency.
- Modeled Equipment Make and Model User input must be equal to the value indicated on Table C as default and allow user to override with an equivalent system based on the simulated equipment in Table C.
- 4. # of Like (or Identical) Water Heaters in System Reference information from Table C.
- 5. Tank Location User input. Must be equal to value indicated in Table C.

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HERS Verified Individual Dwelling Unit Hot Water System Distribution	(Page 2 of 4)

- 6. Exterior Tank Insulation R-value User input. Must be equal to or higher than value indicated in Table C.
- 7. Dwelling Unit DHW System Distribution Type Reference information from Table C.
- 8. Compact Distribution Reference information from Table C.

C. Design HERS Verified Dwelling Unit Water Heating Efficiency Information

This table reports the water heating system features that were specified on the registered NRCC compliance document for this project. This section is for information/verification purposes only and requires no user input.

D. Installed HERS Verified Dwelling Unit Water Heating Efficiency Information

This table reports the water heating system information that is being installed. Require one line for each installed water heater.

- 1. Water Heating System ID or Name Reference information from Table A.
- 2. Heating Efficiency Type Reference information from Table C. Different efficiency types are Energy Factor, AFUE, UEF and Thermal Efficiency.
- 3. Heating Efficiency Value User input must be equal to or higher efficiency than value indicated on the NRCC.
- 4. Standby Loss User input. Must be equal to or less than value indicated in Table C. Value may be N/A if NRCC value is N/A.
- 5. Exterior Insulation R-Value User input. Must be equal to or higher than value indicated in Table C. Value may be N/A if NRCC value is N/A.
- 6. Water Heater Storage Volume (gal) User input. Value may be N/A if water heater type is instantaneous with zero storage.
- 7. Tank location User input. Must be equal to system type indicated in Table C.

E. Installed Water Heater Manufacturer Information

This table reports the manufacturer information of the installed water heater(s). Require one line for each installed water heater

- 1. Water Heating System ID or Name Reference information from NRCC.
- 2. Manufacturer User input. Enter the name of the water heater manufacturer.
- 3. Model Number User input. Enter the model number of the water heater.

F. Mandatory Measures for all Domestic Hot Water Distribution Systems

This table lists the requirements for all DHW systems. HERS rater must ensure all the requirements in this table are met.

G. HERS-Verified Compact Hot Water Distribution Expanded Credit and H. Compact Hot Water Distribution Basic

If performance compliance is used, this table lists the values used in the performance calculation and require no user input.

If prescriptive compliance is used, fill out this table.

- 1. Reference information from NRCC
- 2. Enter the master bath distance of furthest fixture to water heater in feet. For multiple water heaters, enter the distance to the closest water heater.

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- 3. Enter the kitchen distance from furthest fixture to water heater in feet. For multiple water heaters, enter the distance to the closest water heater.
- 4. Enter furthest third fixtures from fixture to Water Heater in feet. For multiple water heaters, enter the average of the furthest distance of each water heater.
- 5. Weighted Distance Calculated value no user input required.
- 6. Qualification Distance Calculated value no user input required.

I. HERS-Verified Drain Water Heat Recovery System

This table lists the requirements for all drain water heat recovery systems. HERS rater must ensure all the requirements in this table are met.

- 1. Reference information from NRCC.
- 2. Reference information from NRCC.03 Reference information from NRCC.
- 3. Reference information from NRCC.
- 4. Reference information from NRCC.
- 5. Drain Water Heat Recovery Manufacturer's Name- Enter the name of the manufacturer.
- 6. Drain Water Heat Recovery Manufacturer's Model Number Enter the model number.
- 7. Rated Effectiveness Enter the rated effectiveness of the DWHR device.
- 8. Installation Configuration Enter type of configuration. Available options are: Equal flow, unequal to shower, and unequal to water heater
- 9. Percent of showers served by the DWHR device Enter the percent of showers served by this DWHR device.
- 10. DWHR System Certified by CEC Enter "Yes" if certified or else enter "No".

J. HERS-Verified Pipe Insulation Credit Requirements

This table only applies to systems indicated as HERS-Verified Pipe Insulation Credit. In addition to the mandatory requirements in Table F, the installer must ensure the requirements in this table are met.

K. HERS-Verified Parallel Piping Requirements

This table only applies to systems indicated as HERS-Verified Parallel Piping. In addition to the mandatory requirements in Table F, the installer must ensure the requirements in this table are met.

L. Parallel Piping Requirements

This table only applies to systems indicated as Parallel Piping. In addition to the mandatory requirements in Table F, the installer must ensure the requirements in this table are met.

M. Point of Use Requirements

This table only applies to systems indicated as Point of Use In addition to the mandatory requirements in Table F, the installer must ensure the requirements in this table are met.

N. Mandatory Requirements for all Recirculation Systems

The requirements of this table apply to all recirculation systems listed below.

O. Recirculation Non-Demand Controls Requirements

This table only applies to systems indicated as Recirculation Non-demand Controls. In addition to the mandatory requirements in Table F and N, the installer must ensure the requirements in this table are met.

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P. Demand Recirculation Manual Control/Sensor Control Requirements

This table only applies to systems indicated as Demand Recirculation Manual Control, Demand Recirculation Senor Control, HERS-Verified Demand Recirculation Manual Control or HERS-Verified Demand Recirculation Senor Control. In addition to the mandatory requirements in Table F and N, the installer must ensure the requirements in this table are met.

Q. HERS-Verified Demand Recirculation Manual Control/Sensor Control Requirements

This table only applies to systems indicated as HERS-Verified Demand Recirculation Manual Control or HERS-Verified Demand Recirculation Senor Control. In addition to the mandatory requirements in Table F and N, the installer must ensure the requirements in this table are met.

Documentation Declaration Statements

- 1. The person who prepared the NRCV will sign and complete the fields for their name, company (if applicable), address, phone number, certification information (if applicable), date and signature.
- 2. The person who is assuming responsibility for the project being built to comply with Title 24, Part 6, will complete the fields (if applicable) for their company, responsible builder or installer name, CSLB license number, sample group number, dwelling test status in sample group, HERS Rater company name, HERS Rater name, HERS Rater signature, HERS Rater certification number and date signed