



**SAMPLE FORM – NOT VALID FOR SUBMISSION TO BUILDING DEPARTMENTS**

**CERTIFICATE OF VERIFICATION**

**Note:** This table completed by ECC Registry.

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

**A. Design 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.

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

**A2. Design 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.

01	02	03	04	05	06	07	08	09	10	11
Dwelling Unit Name	Water Heating System ID or Name	Modeled Equipment Make and Model	# of Like (or Identical) Water Heaters in System	Tank Location	Exterior Tank Insulation R-value	Dwelling Unit DHW System Distribution Type	Compact Distribution	Drain Water Heat Recovery	Simulated Equipment Make and Model	JA13 Compliant

**B. Installed Verified Dwelling Unit Water Heating Systems Information**

This table reports the water heating system features installed in this project.

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



# VERIFIED INDIVIDUAL DWELLING UNIT HOT WATER SYSTEM DISTRIBUTION

CALIFORNIA ENERGY COMMISSION

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### B2. Installed 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	09	10
Dwelling Unit Name	Water Heating System ID or Name	Modeled Equipment Make and Model	# of Like (or Identical) Water Heaters in System	Tank Location	Exterior Tank Insulation R-value	Dwelling Unit DHW System Distribution Type	Compact Distribution	Drain Water Heat Recovery	JA13 Compliant
11	Compliance Statement:								

### C. Design 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 System ID or Name	Heating Efficiency Type	Heating Efficiency Value	Standby Loss (%)	Exterior Insulation R-Value	Water Heater Storage Volume (gal)	Tank location

### D. Installed Verified Dwelling Unit Water Heating Efficiency Information

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

01	02	03	04	05	06	07
Water Heating System ID or Name	Heating Efficiency Type	Heating Efficiency Value	Standby Loss (%)	Exterior Insulation R-Value	Water Heater Storage Volume (gal)	Tank location
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### E. Installed Water Heater Manufacturer Information

01	02	03
Water Heating System ID or Name	Manufacturer	Model Number

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Registration Date/Time:

ECC Provider:

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### F. Mandatory Measures for all Domestic Hot Water Distribution Systems

*The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.*

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)3).
03	<p>Domestic hot water piping insulation requirements (Section 150(J)):</p> <ul style="list-style-type: none"> <li>All domestic hot water piping shall be insulated as specified in Section 609.12 of the California Plumbing Code. Insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.</li> <li>Pipe insulation shall fit tightly and all elbows and tees shall be fully insulated.</li> <li>Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration.</li> <li>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.</li> <li>Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation shall not be required to have pipe insulation.</li> <li>Insulation is not required on the cold water line when it is used as the return.</li> </ul>
04	<p>a. A designated space at least 2.5 feet by 2.5 feet and 7 feet tall <b>within 3 feet</b> from the water heater</p> <ul style="list-style-type: none"> <li>A dedicated 125V, 20A electrical receptacle connected to the electric panel with a 120/240V 3 conductor, branch circuit rated at 30 amps minimum, within 3 feet from the water heater and is accessible with no obstructions.</li> <li>The conductor shall be labeled with the word "Spare" on both ends; and</li> <li>A reserved single pole circuit breaker space next to the circuit breaker next to the branch circuit labeled "Future 240V use" shall be provided.</li> <li>A condensate drain no more than 2 inches higher than the base of the water heater, and allows for natural draining without pump assistance.</li> </ul> <p>b. A designated space at least 2.5 feet by 2.5 feet and 7 feet tall <b>more than 3 feet</b> from the water heater</p> <ul style="list-style-type: none"> <li>A dedicated 240 volt branch circuit shall be installed within 3 feet from the designated space. The branch circuit shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready"; and</li> <li>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</li> <li>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</li> <li>The hot water supply pipe coming out of the gas or propane water heater shall be routed first through the designated HPWH location before serving any fixtures; and</li> <li>The hot and cold water piping at the designated HPWH location shall be exposed and readily accessible for future installation of a HPWH; and</li> <li>A condensate drain no more than 2 inches higher than the base of the installed water heater, and allows natural draining without pump assistance.</li> </ul>
05	<p><b>Domestic hot water piping insulation requirements:</b> See the exceptions to Section 160.4(e) All piping for multifamily domestic hot water systems shall be insulated and meet the applicable requirements below:</p> <p><b>1. General Requirements:</b></p> <ol style="list-style-type: none"> <li>The first 8 feet of inlet cold water piping from the storage tanks, including piping between a storage tank and a heat trap shall be insulated.</li> <li>Insulation on the piping and domestic hot water system appurtenances shall be continuous.</li> <li>Pipe supports, hangers, and pipe clamps shall be attached on the outside of rigid pipe insulation to prevent thermal bridges.</li> <li>All pipe insulation seams shall be sealed.</li> <li>Insulation for pipe elbows shall be mitered, preformed, or site fabricated with PVC covers.</li> <li>Insulation for tees shall be notched, preformed, or site fabricated with PVC covers.</li> <li>Extended stem isolation valves shall be installed.</li> <li>All plumbing appurtenances on hot water piping from a heating source to heating plant, at the heating plant, and distribution supply and return piping shall be insulated to meet the following requirements: <ol style="list-style-type: none"> <li>Where the outer diameter of the appurtenance is less than the outer diameter of the insulated pipe that it is attached to, the appurtenance shall be insulated flush with the insulation surrounding the pipe.</li> <li>Where the outer diameter of the appurtenance is greater than the outer diameter of the insulated pipe that it is attached to, the appurtenance shall be insulated with a minimum thickness of 1 inch.</li> <li>The insulation shall be removable and re-installable to ensure maintenance or replacement services can be completed.</li> <li>Valves shall be fully functional without impediment from the insulation.</li> </ol> </li> </ol>

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05	<p><b>1. Insulation Thickness:</b> All piping for multifamily domestic hot water systems shall meet the insulation thickness requirements specified in of Table 160.4-A.</p> <p>a. For insulation conductivity in the range shown in Table 160.4-A for the applicable fluid temperature range, the insulation shall have the applicable minimum thickness or R-value shown in Table 160.4-A.</p> <p>b. if the insulation conductivity falls outside the range provided in Table 160.4-A applicable fluid temperature range, the insulation shall meet a minimum R-value as indicated in Table 160.4-A. Or, it can have a thickness determined using Equation 160.4-A.</p> <p>c. Insulation conductivity shall be determined in accordance with ASTM C335 at the mean temperature listed in Table 160.4-A, and shall be rounded to the nearest 1/100 Btu-inch per hour per square foot per °F.</p> <p><b>2. Insulation Protection:</b> Pipe Insulation shall be protected from damage due to sunlight, moisture, equipment maintenance and wind. Protection shall, at minimum, include the following:</p> <p>a. Pipe and appurtenance insulation exposed to weather shall be protected by a cover suitable for outdoor service. The cover shall be water retardant and provide shielding from solar radiation that can cause degradation of the material. Appurtenance insulation covers shall be removable and able to be reinstalled. Adhesive tape shall not be used to provide this protection.</p> <p>b. Pipe insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall include, or be protected by, a Class I or Class II vapor retarder. All penetrations and joints shall be sealed.</p> <p>c. Pipe insulation buried below grade must be installed in a waterproof and noncrushable casing or sleeve.</p>	
06	Verification Status:	<input type="checkbox"/> <u>Pass</u> - all applicable requirements are met; or <input type="checkbox"/> <u>Fail</u> - one or more applicable requirements are not met. Enter reason for failure in corrections notes field below; or <input type="checkbox"/> <u>All N/A</u> - This entire table is not applicable
07	Correction Notes:	

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

*The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.*

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	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
10	No hot water piping >1 inch diameter is allowed.							
11	Length of 1 inch diameter piping is limited to 8 feet or less.							
12	Two and three story buildings cannot have hot water distribution piping in the attic, unless the water heater is also located in the attic.							
13	Eligible recirculating systems must be Verified Demand Recirculation: Manual Control conforming to RA4.4.17.							
14	Verification Status:	<input type="checkbox"/> <u>Pass</u> - all applicable requirements are met; or <input type="checkbox"/> <u>Fail</u> - one or more applicable requirements are not met. Enter reason for failure in corrections notes field below; or <input type="checkbox"/> <u>All N/A</u> - This entire table is not applicable						
15	Correction Notes:							



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### H. Compact Hot Water Distribution System (RA4.4.6)

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

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	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

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

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.

DWHR devices shall comply with these requirements.

#### Design DWHR System Information

01	02	03	04
System ID/Name	Rated Effectiveness	Installation Configuration	Percent of shower served by the DWHR device

#### Installed DWHR System Information

05	06	07	08	09	10	11
System Name/ID	Manufacturer	Model #	Rated effectiveness	Installation Configuration	Percent of shower served by the DWHR device	DWHR System Certified by CEC (Yes/No)
12	For water heating system serving a single dwelling, the DWHR system shall, at the minimum, recover heat from the master bathroom shower and must at least transfer that heat either back to the respective shower(s) or the water heater.					
13	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 at least transfer that heat either back to all the respective showers or the water heater.					
14	The DWHR unit(s) shall be installed within 1 degrees of the rated slope. Sloped DWHR shall have a minimum lengthwise slope of 1 degree. The lateral level tolerance shall be within plus or minus 1 degree.					
15	Verification Status:			<input type="checkbox"/> Pass - all applicable requirements are met; or <input type="checkbox"/> Fail - one or more applicable requirements are not met. Enter reason for failure in corrections notes field below; or <input type="checkbox"/> All N/A - This entire table is not applicable		
16	Correction Notes:					

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J. Verified Pipe Insulation for Central Systems Requirements (RA3.6.2)

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.

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

Table with 4 rows: 01 (ECC rater inspection requirements), 02 (Sampling approach and insulation requirements), 03 (Verification Status with checkboxes for Pass, Fail, or All N/A), and 04 (Correction Notes).

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

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.

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

Table with 6 rows: 01 (5 feet of pipe between manifold and heater), 02 (Manifold accessibility), 03 (Direct piping path), 04 (Separation from other piping), 05 (Verification Status with checkboxes for Pass, Fail, or All N/A), and 06 (Correction Notes).



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L. Central Parallel Piping Requirements (RA4.4.4)

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

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

Table with 2 columns: ID (01-04) and Description of requirements for central manifold piping.

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

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

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

Table with 2 columns: ID (01) and Description of requirements for hot water supply pipe run lengths.

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

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

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

Table with 2 columns: ID (01-03) and Description of mandatory requirements for recirculation systems.

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

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

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

Table with 2 columns: ID (01) and Description of requirements for recirculation non-demand controls.



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P. Demand Recirculation Manual Control (RA4.4.9)/Sensor Control (RA4.4.10) Requirements

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

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

Table with 2 columns: ID (01-07) and Description of requirements for demand recirculation manual control and sensor control.

Q. Verified Demand Recirculation Manual Control (RDRmc-H) (RA3.6.6)/Sensor Control (RDRsc-H) (RA3.6.7) Requirements

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.

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

Table with 3 columns: ID (01-03), Verification Status, and Correction Notes. Includes checkboxes for Pass, Fail, and All N/A.

R. Determination of ECC Verification Compliance

All applicable sections of this document shall indicate compliance with the specified verification protocol requirements in order for this Certificate of Verification as a whole to be determined to be in compliance.

Table with 2 columns: ID (01) and Description of compliance determination.



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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Table with 2 columns: Documentation Author Name, Company, Address, City/State/Zip; Documentation Author Signature, Date Signed, CEA/AEA/ECC Certification Identification, Phone.

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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 ECC 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 ECC verification identified on this Certificate of Verification comply with the applicable requirements in Reference Nonresidential Appendices NA1, NA2, NA7 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 shall be made available to the enforcement agency for all applicable inspections. I will take the necessary steps to fulfill 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. I will take the necessary steps to fulfill this requirement.

BUILDER OR INSTALLER INFORMATION AS SHOWN ON THE CERTIFICATE OF INSTALLATION

Table with 2 columns: Company Name, Responsible Builder or Installer Name, CSLB License.

ECC PROVIDER DATA REGISTRY INFORMATION

Table with 2 columns: Sample Group Number, Dwelling Test Status in Sample Group.

ECC RATER INFORMATION

Table with 2 columns: ECC Rater Company Name, Responsible Rater Name, Responsible Rater Signature, Responsible Rater Certification Number, Date Signed.

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

CERTIFICATE OF INSTALLATION – USER INSTRUCTIONS	NRCV-PLB-22-H
Verified Individual Dwelling Unit Hot Water System Distribution	(Page 1 of 4)

## NRCV-PLB-22-H User Instructions

### A. Design Verified Central Water Heating Systems Information

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

#### A1. Design 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 Verified Dwelling Unit Water Heating Systems Information

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

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 – 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. 06 Fuel Type – Reference information from TABLE A. The different kinds of fuel types are natural gas, propane, oil, or electricity.
7. Rated Input Type – Reference information from TABLE A. For natural gas, propane and oil fuel type the input type is Btu/hr. For electric 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 TABLE A.
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 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 A2.
2. Water Heating System ID or Name – Reference information from Table A2. AFUE, UEF and Thermal Efficiency.
3. 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 A2.
4. # of Like (or Identical) Water Heaters in System – Reference information from Table A2

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5. Tank Location – User input. Must be equal to value indicated in Table B2.
6. Exterior Tank Insulation R-value – User input. Must be equal to or higher than value indicated in Table A2.
7. Dwelling Unit DHW System Distribution Type – Reference information from Table A2.
8. Compact Distribution – Reference information from Table A2.

### C. Design 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. For information only and requires no user input.

### D. Installed Verified Dwelling Unit Water Heating Efficiency Information

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

1. Water Heating System ID or Name – Reference information from NRCC
2. Heating Efficiency Type – Reference information from NRCC. Different efficiency types are Energy Factor, AFUE, UEF and Thermal Efficiency.
3. Heating Efficiency Value – User input. Numerical value of the Heating Efficiency. 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 on the NRCC. 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 on the NRCC. 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 on the NRCC.

### 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. ECC rater must ensure all the requirements in this table are met.

### G. Verified Compact Hot Water Distribution Expanded System Credit and

### H. Compact Hot Water Distribution System 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. User select – user select from list
3. 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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4. Enter the Kitchen distance from furthest fixture to Water Heater in feet. For multiple water heaters, enter the distance to the closest water heater.
5. 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.
6. Calculated value – no user input required
7. Calculated value – no user input required

#### I. Verified Drain Water Heat Recovery System

This table lists the requirements for all central recirculation systems. ECC rater must ensure all the requirements in this table are met.

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

#### J. Verified Pipe Insulation for Central Systems Requirements

This table only applies to systems indicated as **-Verified Pipe Insulation for Central Systems** . In addition to the mandatory requirements in Table F, the ECC rater must ensure the requirements in this table are met.

#### K. Verified Central Parallel Piping Requirements

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

#### L. Central Parallel Piping Requirements

This table only applies to systems indicated as **Central 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.

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**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.

**P. Demand Recirculation Manual Control/Sensor Control Requirements**

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

**Q. Verified Demand Recirculation Manual Control (RDRmc-H) (RA3.6.6)/Sensor Control (RDRsc-H) (RA3.6.7)**

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

**R. Determination of Verification Compliance**

This field is filled out automatically. Compliance requires that all individual criteria pass.

**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, ECC Rater company name, ECC Rater name, ECC Rater signature, ECC Rater certification number and date signed.