

## **RESIDENTIAL SOLAR WATER HEATING**

SYSTEM SIZING VERIFICATION (FORM 1)

| INSTR           | <b>UCTIONS:</b> Participating Contractor to | complete all non-shaded areas.    | All shaded areas are for Offici       | al Use only. For question | s, call (808) 537-5577. |  |
|-----------------|---|-----------------------------------|---------------------------------------|---------------------------|-------------------------|--|
| Customer Name:  |   |                                   | Work Order #:                         |                           |                         |  |
| Customer Phone: |   |                                   | Contractor Name:                      |                           |                         |  |
| Contact Name:   |   |                                   | Centralized Multi System: □Yes □No    |                           |                         |  |
|                 |   |                                   |                                       | -                         |                         |  |
| Contact Phone:  |   |                                   |                                       | •                         | •                       |  |
|                 |   |                                   | Tank Access:                          | □Secured □Ur              | secured                 |  |
| Subco           | ontractor(s) Used:   Yes                    | No If YES, Name & Lic             | cense #:                              |                           |                         |  |
|                 |   | Molokai □Lāna'i □Mau              |                                       |                           |                         |  |
|                 |   | Wolona Dzaria i Diwadi            | Паман                                 |                           |                         |  |
|                 | EM DATA – CHART 1                           | □Burnout □Retrofit                |                                       | Accepted                  | Denied                  |  |
| 1               | Installation Reason                         |                                   |                                       |                           |                         |  |
| 2               | Previous Water Heater Type                  | -                                 | □Solar □None                          |                           |                         |  |
| 3               | System Type                                 | □ Active □ Passive                |                                       |                           |                         |  |
| 4               | Neighborhood / Community                    |                                   | ]400 □E00 □EE0                        |                           |                         |  |
| 5               | Sunshine Zone                               | □350 □400 □450 □                  | J480 □500 □550                        |                           |                         |  |
| 6               | Collector Manufacturer                      |                                   |                                       |                           |                         |  |
| 7               | Collector Model No.                         |                                   | 01                                    | 01                        |                         |  |
| 8               | Collector Size                              | □3' x 7' □3' x 8' □4' x           | (6' ☐ 4' x 8' ☐ 4' x 1                | 0'                        |                         |  |
| 9               | Absorber Coating                            | □Chrome □Paint                    |                                       |                           |                         |  |
| 10              | Collector Orientation                       | degrees (true)                    |                                       |                           |                         |  |
| 11              | Collector Orientation Factor                |                                   | rt 1: Collector Orientation Factor Co | mpass)                    |                         |  |
| 12              | Collector Mounting Method                   |                                   | □End tilt                             |                           |                         |  |
| 13              | Collector Tilt                              | degrees                           |                                       |                           |                         |  |
| 14              | Collector Tilt Factor                       | -                                 | le 3: Tilt Factor Table)              |                           |                         |  |
| 15              | Back-Up Heating Type                        | □Electric □Gas □He                | -                                     |                           |                         |  |
| 16              | Pump Type                                   | □AC □DC □No                       | one                                   |                           |                         |  |
| SIZIN           | G: HOT WATER STORAGE                        |                                   |                                       |                           | Gal. / Day Line         |  |
| •               | Hot Water Use: Total numl                   | per of occupants                  | x 20 gal./day                         |                           | 1                       |  |
|                 |   |                                   |                                       |                           |                         |  |
| •               | Required Storage                            |                                   |                                       |                           | 2                       |  |
|                 | •   |                                   |                                       |                           |                         |  |
| •               | Actual System Storage Sele                  | ected (from Table 2, SWH Handbook | -                                     | <u>Daily BTU I</u>        | <u>Requirement</u>      |  |
|                 |   |                                   | Tank #1                               |                           | 3                       |  |
|                 |   |                                   | Tank #2                               |                           | 4                       |  |
|                 |   |                                   | Tank #3                               |                           | 5                       |  |
| •               | Total Actual System Storag                  | e: (add Lines 3, 4 and 5)         |                                       |                           | 6                       |  |
|                 |   |                                   |                                       |                           |                         |  |
| SIZIN           | G: SOLAR COLLECTOR(S)                       |                                   |                                       | BTU / Day Output          |                         |  |
| •               | BTU/Day Output for Solar Co                 |                                   |                                       |                           | 7                       |  |
| •               | Number of Collectors per Mo                 |                                   | Model 1:                              | Model 2:                  | 8                       |  |
| •               | Sub-Total: Collector BTU/Day                | y Output (multiply Lines 7 and    | d 8) Model 1:                         | Model 2:                  | 9                       |  |
| •               | Total Collector BTU/Day Out                 | out (add Model 1 and Model 2      | 2 from Line 9)                        |                           |                         |  |
| •               | Derating BTU Output/Day: Or                 | •                                 | •                                     | ine 10                    | 10                      |  |
| •               |   | It <sup>0</sup> ; Factor          |                                       |                           | 11                      |  |
|                 |   |                                   |                                       | ractors) x <u>Line</u>    |                         |  |
| •               | Adjusted Collector BTU/Day (                | Output (Subtract Lines 11 and     | 1 12 fr <b>đi</b> h Line 10)          |                           | 13                      |  |
| SOLAR FRACTION  |   |                                   |                                       |                           |                         |  |
| •               | Percent Solar Fraction (Divide              | e Line 13 by Line 6)              |                                       | -                         | % 14                    |  |
| Inspe           | ctor: Customer Pr                           | esent: D                          | ate:                                  | Form 1: □Acc              | epted Denied            |  |
|                 | nents:                                      |                                   |                                       | 1                         |                         |  |