

# BUILDING ENERGY ANALYSIS REPORT

## PROJECT:

Nonresidential Prescriptive Sample

## Project Designer:

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123 Easy St.  
San Diego, CA 92000  
858-123-4567

## Report Prepared by:

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## Job Number:

19441

## Date:

12/28/2019

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2019 Building Energy Efficiency Standards.

This program developed by EnergySoft Software – [www.energysoft.com](http://www.energysoft.com).

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SAMPLE

## Envelope Component Approach

NRCC-ENV-E

|  |                  |                                   |
|--|------------------|-----------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b>   |                  | <b>NRCC-ENV-E</b>                 |
| This document is used to demonstrate compliance with mandatory requirements in <a href="#">§110.8(g)</a> and <a href="#">§120.7(b)</a> for newly constructed buildings, and <a href="#">§141.0(b)1</a> for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in <a href="#">§140.3</a> for newly constructed buildings, and <a href="#">§141.0</a> for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements. |                  |                                   |
| <b>Project Name:</b>   | Namaste Nails TI | <b>Report Page:</b> (Page 1 of 5) |
| <b>Project Address:</b>  |                  | <b>Date Prepared:</b> 12/28/2019  |

**A. GENERAL INFORMATION**

|                                     |  |                          |  |   |  |
|-------------------------------------|--|--------------------------|--|---|--|
| 01                                  | Project Location (city)  | Sunnvale                 | 05   | # of Stories (Habitable Above Grade)  | 1  |
| 02                                  | Zipcode  | 94086                    | 06   | Total Conditioned Floor Area (ft <sup>2</sup> )   | 1676                                       |
| 03                                  | Climate Zone   | 4                        | 07   | Total Unconditioned Floor Area (ft <sup>2</sup> )   | 0  |
| 04                                  | Occupancy Types Within Project: (select all that apply): If one occupancy constitutes >= 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per <a href="#">§100.0(f)</a> . |                          | 08   | <input checked="" type="checkbox"/> Project includes unconditioned enclosed space(s) > 5,000 ft <sup>2</sup> under a roof with a ceiling height of at least 15 ft. <sup>1</sup> |  |
| <input checked="" type="checkbox"/> | All Nonresidential, including Relocatable Public School Building certified for use in one climate zone Occupancy: A / B / E / F / H / M / S / U  | <input type="checkbox"/> | Relocatable Public School Building for use in all climate zones Occupancy: E | <input type="checkbox"/>  | High-Rise Residential Occupancy: R-2 / R-3 |
|                                     |  |                          |  | <input checked="" type="checkbox"/>   | Hotel/Motel Guest Rooms Occupancy: R-1     |

<sup>1</sup> FOOTNOTE: Enclosed spaces > 5,000 ft<sup>2</sup> directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in [§140.3\(c\)](#). Compliance with [§140.3\(c\)](#) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.

**B. PROJECT SCOPE**

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in [§140.3](#), and [§141.0\(a\)1](#) and [§141.0\(b\)1](#) and 2 for additions and alterations.

| My project consists of (check all that apply) |   | Component Types          |                  |                                     |        |                                     |  |
|---|---|--------------------------|------------------|-------------------------------------|--------|-------------------------------------|--|
| 01  |   | 02                       |                  |                                     |        |                                     |  |
| <input type="checkbox"/>                      | New Construction or Newly Conditioned Space   | <input type="checkbox"/> | Roof             | <input type="checkbox"/>            | Walls  | <input type="checkbox"/>            | Exterior Doors                           |
| <input type="checkbox"/>                      | One or more enclosed spaces > 5,000 ft <sup>2</sup> directly under roof with ceiling height > 15ft  | <input type="checkbox"/> |                  | <input type="checkbox"/>            | Floors | <input type="checkbox"/>            | Fenestration/ Glazing Doors <sup>1</sup> |
| <input type="checkbox"/>                      | Addition of conditioned space   | <input type="checkbox"/> | Roof             | <input type="checkbox"/>            | Walls  | <input type="checkbox"/>            | Exterior Doors                           |
| <input type="checkbox"/>                      | One or more enclosed spaces > 5,000 ft <sup>2</sup> directly under roof with ceiling height > 15ft  | <input type="checkbox"/> |                  | <input type="checkbox"/>            | Floors | <input type="checkbox"/>            | Fenestration/ Glazing Doors <sup>1</sup> |
| <input checked="" type="checkbox"/>           | Alteration of conditioned space   | <input type="checkbox"/> | Roof Assembly    | <input checked="" type="checkbox"/> | Walls  | Exterior Doors NA. for Alts.        |  |
| <input type="checkbox"/>                      | One or more enclosed spaces > 5,000 ft <sup>2</sup> directly under roof with ceiling height > 15ft and lighting system installed for the first time | <input type="checkbox"/> | Roofing Material | <input type="checkbox"/>            | Floors | <input checked="" type="checkbox"/> | Fenestration/ Glazing Doors              |

<sup>1</sup> FOOTNOTE: Doors that are more than one-half glass in area are considered Glazed Doors and should be documented on table K with fenestration.

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## Envelope Component Approach

NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | NRCC-ENV-E                        |
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**C. COMPLIANCE RESULTS**

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

| Opaque Envelope Components |                   |               |               |               | Fenestration  | Daylighting Spaces > 5,000ft <sup>2</sup> | Compliance Results |
|----------------------------|-------------------|---------------|---------------|---------------|---------------|---|--------------------|
| Roof Assembly              | Roofing Materials | Walls         | Floors        | Doors         |               |   |                    |
| 01                         | 02                | 03            | 04            | 05            | 06            | 07  | 08                 |
| (See Table F)              | (See Table G)     | (See Table H) | (See Table I) | (See Table J) | (See Table K) | (See Table L)                             | COMPLIES           |
|                            |                   | Yes           |               |               | Yes           |   |                    |

**D. EXCEPTIONAL CONDITIONS**

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. ROOF ASSEMBLY SCHEDULE**

This section does not apply to this project.

**G. RATED ROOFING MATERIAL (COOL ROOF)**

This section does not apply to this project.

**H. WALL ASSEMBLY SCHEDULE**

This table demonstrates compliance with prescriptive wall assembly requirements in [§140.3\(a\)2](#) and [§140.3\(a\)3](#) for new constructions or additions, or mandatory wall assembly requirements in [§141.0\(b\)1B](#) for alterations.

|    |   |  |  |   |                                     |  |
|----|---|--|--|---|-------------------------------------|--|
| 01 | Indicate wall types included in the project: <sup>1</sup> | <input checked="" type="checkbox"/> Framed | <input type="checkbox"/> Mass (new only) | <input type="checkbox"/> Concrete Sandwich Panel (new only) | <input type="checkbox"/> SIPS       | <input type="checkbox"/> ICF (new only)      |
|    |   | <input type="checkbox"/> Metal Panels      | <input type="checkbox"/> Metal Building  | <input type="checkbox"/> Spandrel/ Curtain Wall             | <input type="checkbox"/> Straw Bale | <input type="checkbox"/> Log Home (new only) |

<sup>1</sup> FOOTNOTES: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

**Framed Walls**

|    |                          |  |
|----|--------------------------|--|
| 01 | <input type="checkbox"/> | Calculate Area-Weighted Average U-factor for Metal Framed Walls <sup>1</sup> |
|----|--------------------------|--|

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## Envelope Component Approach

NRCC-ENV-E

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
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**H. WALL ASSEMBLY SCHEDULE**

|                    |                                       |  |               |                                 |                              |                                  |                          |                              |                     |       |                                       |
|--------------------|---------------------------------------|--|---------------|---------------------------------|------------------------------|----------------------------------|--------------------------|------------------------------|---------------------|-------|---------------------------------------|
| 02                 | <input checked="" type="checkbox"/>   | Include Wood Framed Walls in Area-Weighted Average U-factor Calculation <sup>1</sup> |               |                                 |                              |                                  |                          |                              |                     |       |                                       |
| 03                 | 04                                    | 05   | 06            | 07                              | 08                           | 09                               | 10                       | 11                           | 12                  | 13    |                                       |
| Tag/Plan Detail ID | Occupancy & Status                    | How Design U-factor was determined   | Location      | Frame Material, Spacing & Depth | Cavity Insulation per Design | Continuous Insulation per Design | Thermal Performance Unit | Required Thermal Performance | U-factor per Design |       | Net Area <sup>3</sup> ft <sup>2</sup> |
| Front Wall         | Nonresidential/ Relocatable 1 CZ: New | JA4 Tables   | Exterior wall | Wood 1/2" gyp 16" OC            |                              | 0.0                              | U-factor                 | 0.11                         | per JA4             |       | 950                                   |
|                    |                                       |  |               |                                 |                              |                                  |                          |                              | per Software/ Other | 0.074 |                                       |

<sup>1</sup>FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal framed walls may not be combined with other wall types. Wood framed walls are combined with SIPS, spandrel & curtain, metal panel and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in [Table 141.0-C](#).

<sup>2</sup> If "R-value" is shown in cell 10 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per [§141.0\(b\)1B](#).

<sup>3</sup> Wall area minus any fenestration area

This section does not apply to this project.

This section does not apply to this project.

**I. FLOOR ASSEMBLY SCHEDULE**

This section does not apply to this project.

**J. EXTERIOR DOOR SCHEDULE**

This section does not apply to this project.

**FENESTRATION AND GLAZED DOOR SCHEDULE**

This section does not apply to this project.

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## Envelope Component Approach

NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
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**L. DAYLIGHT IN LARGE ENCLOSED SPACES**

This section does not apply to this project.

**M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCI/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/)*

| Yes                              | No                    | Form/Title  | Field Inspector          |                          |
|----------------------------------|-----------------------|---|--------------------------|--------------------------|
|                                  |                       |   | Pass                     | Fail                     |
| <input checked="" type="radio"/> | <input type="radio"/> | NRCI-ENV-01-E - Must be submitted for all buildings | <input type="checkbox"/> | <input type="checkbox"/> |

**N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCA/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/). Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.3.1*

| Yes                              | No                    | Form/Title  | Field Inspector          |                          |
|----------------------------------|-----------------------|---|--------------------------|--------------------------|
|                                  |                       |   | Pass                     | Fail                     |
| <input checked="" type="radio"/> | <input type="radio"/> | NRCA-ENV-02-F must be submitted for all new, added or altered fenestration. | <input type="checkbox"/> | <input type="checkbox"/> |

Registration Number:

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**Envelope Component Approach**

NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
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|   |   |
|---|---|
| <b>DOCUMENTATION AUTHOR'S DECLARATION STATEMENT</b>   |   |
| Documentation Author Name:<br>David Hensel, PE  | Documentation Author Signature:                                   |
| Company:<br>Hensel Consulting Engineers, Inc.   | Signature Date:   |
| Address:<br>5857 Owens Ave., 3rd Floor  | CEA/ HERS Certification Identification (if applicable):<br>M32901 |
| City/State/Zip:<br>Carlsbad CA 92008  | Phone:<br>(619) 665-3259  |
| <b>RESPONSIBLE PERSON'S DECLARATION STATEMENT</b>   |   |
| I certify the following under penalty of perjury, under the laws of the State of California:  |   |
| <ol style="list-style-type: none"> <li>The information provided on this Certificate of Compliance is true and correct.</li> <li>I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)</li> <li>The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.</li> <li>The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.</li> <li>I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.</li> </ol> |   |
| Responsible Designer Name:<br>Jon Doe, AIA  | Responsible Designer Signature:                                   |
| Company:<br>Jon Doe Design  | Date Signed:<br>2019-12-28  |
| Address:<br>123 Easy St.  | License:<br>123456  |
| City/State/Zip:<br>San Diego CA 92000   | Phone:<br>858-123-4567  |

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

## Indoor Lighting

NRCC-LTI-E

## CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in [§110.9](#), [§110.12\(c\)](#), [§130.0](#), [§130.1](#), [§140.6](#) and [§141.0\(b\)2](#) for indoor lighting scopes using the prescriptive path.

|                  |                  |                |               |
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## A. GENERAL INFORMATION

|                                     |   |                                     |                       |   |                  |
|-------------------------------------|---|-------------------------------------|-----------------------|---|------------------|
| 01                                  | Project Location (city)                                 | Sunnvale                            | 04                    | Total Conditioned Floor Area (ft <sup>2</sup> )   | 1,676            |
| 02                                  | Climate Zone  | 4                                   | 05                    | Total Unconditioned Floor Area (ft <sup>2</sup> ) | 0                |
| 03                                  | Occupancy Types Within Project (select all that apply): |                                     | 06                    | # of Stories (Habitable Above Grade)              | 1                |
| <input checked="" type="checkbox"/> | Office  | <input checked="" type="checkbox"/> | Retail                | <input checked="" type="checkbox"/>               | Warehouse        |
| <input type="checkbox"/>            | Parking Garage  | <input type="checkbox"/>            | High-Rise Residential | <input type="checkbox"/>                          | Relocatable      |
| <input type="checkbox"/>            |   | <input type="checkbox"/>            | Hotel/Motel           | <input type="checkbox"/>                          | School           |
|                                     |   |                                     | Healthcare            | <input checked="" type="checkbox"/>               | Other (Write in) |
|                                     |   |                                     |                       | <input checked="" type="checkbox"/>               | Support Areas    |

## B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in [§140.6](#) or [§141.0\(b\)2](#) for alterations.

| Scope of Work  | Conditioned Spaces   |                         | Unconditioned Spaces |                         |    |
|--|----------------------|-------------------------|----------------------|-------------------------|----|
|  | 01                   | 02                      | 03                   | 04                      | 05 |
| My Project Consists of (check all that apply):                           | Calculation Method   | Area (ft <sup>2</sup> ) | Calculation Method   | Area (ft <sup>2</sup> ) |    |
| <input checked="" type="checkbox"/> New Lighting System                  | Area Category Method | 1676                    | Area Category Method | 0                       |    |
| <input checked="" type="checkbox"/> New Lighting System - Parking Garage |                      |                         |                      |                         |    |
| <input checked="" type="checkbox"/> Altered Lighting System              |                      |                         |                      |                         |    |
| <b>Total Area of Work (ft<sup>2</sup>)</b>                               |                      | 1676                    |                      | 0                       |    |

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft



## Indoor Lighting

NRCC-LTI-E

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | NRCC-LTI-E                        |
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**C. COMPLIANCE RESULTS**

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

| Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1 | Allowed Lighting Power per §140.6(b) (Watts)     |  |  |  |                       | = | ≥     | Adjusted Lighting Power per §140.6(a) (Watts) |  |   | Compliance Results |                           |
|---|--|--|--|--|-----------------------|---|-------|---|--|---|--------------------|---------------------------|
|   | 01   | 02   | 03   | 04                                       | 05                    |   |       | 06  | 07   | 08  |                    | 09                        |
|   | Complete Building<br>§140.6(c)1<br>(See Table I) | Area Category<br>§140.6(c)2<br>(See Table I) | Area Category Additional<br>§140.6(c)2G (+)<br>(See Table J) | Tailored §140.6(c)3 (+)<br>(See Table K) | Total Allowed (Watts) |   |       | Total Designed (Watts)<br>(See Table F)       | Adjustments  | Total Adjusted (Watts)<br>*Includes Adjustments |                    | 05 must be ≥ 08<br>§140.6 |
|   |  |  |  |  |                       |   |       |   | PAF Lighting Control Credits §140.6(a)2 (-)<br>(See Table P) |   |                    |                           |
| <b>Conditioned</b>  | 0  | 1,328.85                                     | 0  | 0  | = 1328.85             | ≥ | 1,213 | 0   | = 1213   | COMPLIES  |                    |                           |
| <b>Unconditioned</b>  | 0  | 0  | 0  | 0  | =                     | ≥ | 0     | 0   | =  |   |                    |                           |
| <b>Controls Compliance (See Table H for Details)</b>  |  |  |  |  |                       |   |       |   |  | COMPLIES  |                    |                           |
| <b>Rated Power Reduction Compliance (See Table Q for Details)</b>                                   |  |  |  |  |                       |   |       |   |  |   |                    |                           |

**D. EXCEPTIONAL CONDITIONS**

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. INDOOR LIGHTING FIXTURE SCHEDULE**

This table includes all permanent designed lighting and all portable lighting in offices.

**Designed Wattage: Conditioned Spaces**

| 01               | 02                             | 03                      | 04   | 05                               | 06                        | 07                         | 08                    | 09           | 10                       |                          |
|------------------|--------------------------------|-------------------------|--|----------------------------------|---------------------------|----------------------------|-----------------------|--------------|--------------------------|--------------------------|
| Name or Item Tag | Complete Luminaire Description | Modular (Track) Fixture | Small Aperture & Color Change <sup>1</sup> | Watts per luminaire <sup>2</sup> | How is Wattage determined | Total Number of Luminaires | Exempt per §140.6(a)3 | Design Watts | Field Inspector          |                          |
|                  |                                |                         |  |                                  |                           |                            |                       |              | Pass                     | Fail                     |
| A                | Fixture A                      | No                      | No   | 18                               | Mfr. Spec <sup>1</sup>    | 17                         | No                    | 306          | <input type="checkbox"/> | <input type="checkbox"/> |
| B                | Fixture B                      | No                      | No   | 35                               | Mfr. Spec <sup>1</sup>    | 4                          | No                    | 140          | <input type="checkbox"/> | <input type="checkbox"/> |

Registration Number:

Registration Date/Time:

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## Indoor Lighting

NRCC-LTI-E

## CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

|                  |                  |                |               |
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## F. INDOOR LIGHTING FIXTURE SCHEDULE

|   |                |     |    |     |                        |   |    |       |                          |                          |
|---|----------------|-----|----|-----|------------------------|---|----|-------|--------------------------|--------------------------|
| D   | Fixture D      | No  | No | 100 | Mfr. Spec <sup>1</sup> | 4 | No | 400   | <input type="checkbox"/> | <input type="checkbox"/> |
| E   | Fixture E      | No  | No | 7   | Mfr. Spec <sup>1</sup> | 2 | No | 14    | <input type="checkbox"/> | <input type="checkbox"/> |
| F   | Fixture F      | No  | No | 16  | Mfr. Spec <sup>1</sup> | 2 | No | 32    | <input type="checkbox"/> | <input type="checkbox"/> |
| G (4')  | Fixture G (4') | Yes | No | 50  | Mfr. Spec <sup>1</sup> | 1 | No | 50    | <input type="checkbox"/> | <input type="checkbox"/> |
| G (6')  | Fixture G (6') | Yes | No | 75  | Mfr. Spec <sup>1</sup> | 1 | No | 75    | <input type="checkbox"/> | <input type="checkbox"/> |
| G (8')  | Fixture G (8') | Yes | No | 100 | Mfr. Spec <sup>1</sup> | 1 | No | 100   | <input type="checkbox"/> | <input type="checkbox"/> |
| H   | Fixture H      | No  | No | 32  | Mfr. Spec <sup>1</sup> | 3 | No | 96    | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Total Designed Watts: CONDITIONED SPACES</b> |                |     |    |     |                        |   |    | 1,213 |                          |                          |

<sup>1</sup>FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per [§140.6\(a\)4B](#) is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

SAMPLE

Registration Number:

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Registration Provider: EnergySoft

## Indoor Lighting

NRCC-LTI-E

|                                  |                  |                                   |
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**G. MODULAR LIGHTING SYSTEMS**

This table calculates wattage for modular lighting systems/ track lighting fixtures indicated on Table F and transfers wattage to Table F.

| 01               | 02                         | 03   |  |   |  | 04            |
|------------------|----------------------------|--|--|---|--|---------------|
| Name or Item Tag | Complete Track Description | Calculation Method per §130.0(c)6                                  |  |   |  | Track Wattage |
| G (4')           | Fixture G (4')             | <input type="checkbox"/> i Installed Luminaires vs Default 30 W/ft | <input checked="" type="checkbox"/> ii Current Limiter | <input type="checkbox"/> iii Overcurrent Protection Panel | <input type="checkbox"/> iv Power supplied by driver, power supply or transformer <sup>1</sup> |               |
|                  |                            | VA of current limiter  |  |   |  | 200450800     |
|                  |                            | 200450800  |  |   |  |               |
| G (4')           | Fixture G (4')             | <input type="checkbox"/> i Installed Luminaires vs Default 30 W/ft | <input checked="" type="checkbox"/> ii Current Limiter | <input type="checkbox"/> iii Overcurrent Protection Panel | <input type="checkbox"/> iv Power supplied by driver, power supply or transformer <sup>1</sup> |               |
|                  |                            | VA of current limiter  |  |   |  | 200450800     |
|                  |                            | 200450800  |  |   |  |               |
| G (4')           | Fixture G (4')             | <input type="checkbox"/> i Installed Luminaires vs Default 30 W/ft | <input checked="" type="checkbox"/> ii Current Limiter | <input type="checkbox"/> iii Overcurrent Protection Panel | <input type="checkbox"/> iv Power supplied by driver, power supply or transformer <sup>1</sup> |               |
|                  |                            | VA of current limiter  |  |   |  | 200450800     |
|                  |                            | 200450800  |  |   |  |               |

<sup>1</sup>FOOTNOTE: For power-over-Ethernet lighting systems, power provided to installed non-lighting devices may be subtracted from the total power rating of the power-over-Ethernet system..

**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

This table includes lighting controls for conditioned and unconditioned spaces. When a control having a \* is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

**Building Level Controls**

| 01                                   | 02                          | 03              |      |
|--------------------------------------|-----------------------------|-----------------|------|
| Mandatory Demand Response §110.12(c) | Shut-off controls §130.1(c) | Field Inspector |      |
|                                      |                             | Pass            | Fail |

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

**Indoor Lighting**

NRCC-LTI-E

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-LTI-E</b>                 |
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**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

|                            |  |  |   |  |  |  |   |                          |                          |
|----------------------------|--|--|---|--|--|--|---|--------------------------|--------------------------|
| Not Required 10,000 SF     |  |  |   | See Area/Space Level Controls                  |  |  |   | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Area Level Controls</b> |  |  |   |  |  |  |   |                          |                          |
| 04                         | 05   | 06   | 07  | 08   | 09   | 10   | 11  | 12                       |                          |
| Area Description           | Complete Building or Area Category Primary Function Area | Area Controls<br><a href="#">§130.1(a)</a> | Multi-Level Controls<br><a href="#">§130.1(b)</a> | Shut-Off Controls<br><a href="#">§130.1(c)</a> | Primary/Sky lit Daylighting<br><a href="#">§130.1(d)</a> | Secondary Daylighting<br><a href="#">§140.6(d)</a> | Interlocked Systems<br><a href="#">§140.6(a)1</a> | Field Inspector          |                          |
|                            |  |  |   |  |  |  |   | Pass                     | Fail                     |
| 101-Reception (Retail)     | All Other Space Types                                    | Manual ON/OFF                              | Dimmer  | Automatic Timer Switch                         | Included   | Included   | No  | <input type="checkbox"/> | <input type="checkbox"/> |
| 102-Cocoon Room            | All Other Space Types                                    | Manual ON/OFF                              | Dimmer  | Automatic Timer Switch                         | N/A  | N/A  | No  | <input type="checkbox"/> | <input type="checkbox"/> |
| 103-Sanctuary              | All Other Space Types                                    | Manual ON/OFF                              | Dimmer  | Automatic Timer Switch                         | N/A  | N/A  | No  | <input type="checkbox"/> | <input type="checkbox"/> |
| 104-Private Office         | All Other Space Types                                    | Manual ON/OFF                              | Exempt*   | Automatic Timer Switch                         | N/A  | N/A  | No  | <input type="checkbox"/> | <input type="checkbox"/> |
| 105-Clean Room (Storage)   | All Other Space Types                                    | Manual ON/OFF                              | Exempt*   | Automatic Timer Switch                         | N/A  | N/A  | No  | <input type="checkbox"/> | <input type="checkbox"/> |
| 106-Break Room             | All Other Space Types                                    | Manual ON/OFF                              | Dimmer  | Automatic Timer Switch                         | N/A  | N/A  | No  | <input type="checkbox"/> | <input type="checkbox"/> |
| 107-Restroom               | All Other Space Types                                    | Manual ON/OFF                              | Exempt*   | Automatic Timer Switch                         | N/A  | N/A  | No  | <input type="checkbox"/> | <input type="checkbox"/> |
| 107-Restroom               | All Other Space Types                                    | Manual ON/OFF                              | Exempt*   | Automatic Timer Switch                         | N/A  | N/A  | No  | <input type="checkbox"/> | <input type="checkbox"/> |

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Registration Date/Time:

Registration Provider: EnergySoft

**Indoor Lighting**

NRCC-LTI-E

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
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**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

\*NOTES: Controls with a \* require a note in the space below explaining how compliance is achieved.

EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

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Plan Sheet Showing Daylit Zones:

|                          |                               |
|--------------------------|-------------------------------|
| 104-Private Office       | Room is less than 100SF       |
| 105-Clean Room (Storage) | Room include only 1 luminaire |
| 107-Restroom             | Room is less than 100SF       |
| 107-Restroom             | Room is less than 100SF       |

**I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS**

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

**Conditioned Spaces**

| 01                     | 02   | 03                                   | 04                      | 05                      | 06                                |     |
|------------------------|--|--------------------------------------|-------------------------|-------------------------|-----------------------------------|-----|
| Area Description       | Complete Building or Area Category Primary Function Area | Allowed Density (W/ft <sup>2</sup> ) | Area (ft <sup>2</sup> ) | Allowed Wattage (Watts) | Additional Allowance / Adjustment |     |
|                        |  |                                      |                         |                         | Area Category                     | PAF |
| Salon Area (Sanctuary) | Beauty Salon Area  | 0.8                                  | 702                     | 561.6                   | No                                | No  |
| Break Area             | Lounge Breakroom or Waiting Area                         | 0.65                                 | 151                     | 98.15                   | No                                | No  |
| Restroom               | Corridor Area  | 0.6                                  | 45                      | 27                      | No                                | No  |
| Clean Room (Storage)   | Warehouse  | 0.45                                 | 124                     | 55.8                    | No                                | No  |
| Reception (Retail)     | Retail Merchandise Sales                                 | 1                                    | 407                     | 407                     | No                                | No  |
| Salon Area (Cocoon)    | Beauty Salon Area  | 0.8                                  | 118                     | 94.4                    | No                                | No  |
| Private Office         | Office 250 square feet or less                           | 0.7                                  | 75                      | 52.5                    | No                                | No  |
| Restroom               | Corridor Area  | 0.6                                  | 54                      | 32.4                    | No                                | No  |
| <b>TOTALS:</b>         |  |                                      | 1,676                   | 1,328.85                | See Tables J, or P for detail     |     |

Registration Number:

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Registration Provider: EnergySoft

**Indoor Lighting**

NRCC-LTI-E

**CERTIFICATE OF COMPLIANCE**

NRCC-LTI-E

|                         |                  |                       |                      |
|-------------------------|------------------|-----------------------|----------------------|
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**J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM**

This section does not apply to this project.

**K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE**

This section does not apply to this project.

**L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY**

This section does not apply to this project.

**M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING**

This section does not apply to this project.

**N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS**

This section does not apply to this project.

**O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE**

This section does not apply to this project.

**P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))**

This section does not apply to this project.

**Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS**

This section does not apply to this project.

**R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS**

This section does not apply to this project.

**S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)**

This section does not apply to this project.

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

**Indoor Lighting**

NRCC-LTI-E

|                                  |                  |                                   |
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**T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCI/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/)*

| Yes                              | No                               | Form/Title   | Field Inspector          |                          |
|----------------------------------|----------------------------------|--|--------------------------|--------------------------|
|                                  |                                  |  | Pass                     | Fail                     |
| <input checked="" type="radio"/> | <input type="radio"/>            | NRCI-LTI-01-E - Must be submitted for all buildings  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance. | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.  | <input type="checkbox"/> | <input type="checkbox"/> |

**U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>*

| Yes                              | No                               | Form/Title  | Field Inspector          |                          |
|----------------------------------|----------------------------------|---|--------------------------|--------------------------|
|                                  |                                  |   | Pass                     | Fail                     |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="radio"/> | <input type="radio"/>            | NRCA-LTI-03-A - Must be submitted for automatic daylight controls.                          | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.                  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)   | <input type="checkbox"/> | <input type="checkbox"/> |

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

**Indoor Lighting**

NRCC-LTI-E

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-LTI-E</b>                 |
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| <b>Project Address:</b>          |                  | <b>Date Prepared:</b> 12/28/2019  |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

|  |   |
|--|---|
| Documentation Author Name:<br>David Hensel, PE | Documentation Author Signature:                                   |
| Company:<br>Hensel Consulting Engineers, Inc.  | Signature Date:<br>2019-12-28                                     |
| Address:<br>5857 Owens Ave., 3rd Floor         | CEA/ HERS Certification Identification (if applicable):<br>M32901 |
| City/State/Zip:<br>Carlsbad CA 92008           | Phone:<br>(619) 665-3259  |

**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 Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

|  |                                 |
|--|---------------------------------|
| Responsible Designer Name:<br>Jon Doe, AIA | Responsible Designer Signature: |
| Company:<br>Jon Doe Design                 | Date Signed:<br>2019-12-28      |
| Address:<br>123 Easy St.                   | License:<br>123456              |
| City/State/Zip:<br>San Diego CA 92000      | Phone:<br>858-123-4567          |

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft



## Outdoor Lighting

NRCC-LTO-E

## CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

|                  |                  |                |               |
|------------------|------------------|----------------|---------------|
| Project Name:    | Namaste Nails TI | Report Page:   | (Page 1 of 7) |
| Project Address: |                  | Date Prepared: | 12/28/2019    |

## A. GENERAL INFORMATION

|                          |  |                                     |                                     |   |  |
|--------------------------|--|-------------------------------------|-------------------------------------|---|--|
| 01                       | Project Location (city)  | Sunnvale                            | 04                                  | Total Illuminated Hardscape Area (ft <sup>2</sup> ) | 0  |
| 02                       | Climate Zone   | 4                                   |                                     |   |  |
| 03                       | Outdoor Lighting Zone per Title 24 Part 1 <a href="#">§10.114</a> or as designated by Authority Having Jurisdiction (AHJ): |                                     |                                     |   |  |
| <input type="checkbox"/> | LZ-0: Very Low - Undeveloped Parkland  | <input type="checkbox"/>            | LZ-2: Moderate - Rural Areas        | <input type="checkbox"/>                            | LZ-4: High - Must be reviewed by CA Energy Commission for Approval |
| <input type="checkbox"/> | LZ-1: Low - Developed Parkland   | <input checked="" type="checkbox"/> | LZ-3: Moderately High - Urban Areas |   |  |

## B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in [§140.7](#) or [§141.0\(b\)2L](#) for alterations.

## My Project Consists of:

|   |                         |  |                           |                          |        |
|---|-------------------------|--|---------------------------|--------------------------|--------|
| 01  |                         | 02   |                           |                          |        |
| <input checked="" type="checkbox"/>                 | New Lighting System     | Must Comply with Allowances from <a href="#">§140.7</a>            |                           |                          |        |
| <input type="checkbox"/>                            | Altered Lighting System | Is your alteration increasing the connected lighting load (Watts)? | <input type="radio"/> Yes | <input type="radio"/> No |        |
| 03  |                         | 04   | 05                        |                          |        |
| % of Existing Luminaires Being Altered <sup>1</sup> |                         | Sum Total of Luminaires Being Added or Altered                     | Calculation Method        |                          |        |
| <input type="checkbox"/>                            | < 10%                   | <input type="checkbox"/>   | >= 10% and < 50%          | <input type="checkbox"/> | >= 50% |

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

<sup>1</sup> FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

SAMPLE

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

## Outdoor Lighting

NRCC-LTO-E

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | NRCC-LTO-E                        |
| <b>Project Name:</b>             | Namaste Nails TI | <b>Report Page:</b> (Page 2 of 7) |
| <b>Project Address:</b>          |                  | <b>Date Prepared:</b> 12/28/2019  |

**C. COMPLIANCE RESULTS**

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

| Calculations of Total Allowed Lighting Power (Watts) <a href="#">§140.7</a> or <a href="#">§141.0(b)2L</a> |   |  |   |   |   |   |   |  |    |  | Compliance Results |                       |   |                      |                            |
|--|---|--|---|---|---|---|---|--|----|--|--------------------|-----------------------|---|----------------------|----------------------------|
| 01   |   | 02   |   | 03  |   | 04  |   | 05   | OR | 06   | =                  | 07                    | ≥ | 08                   | 09                         |
| General Hardscape Allowance <a href="#">§140.7(d)1</a> (See Table I)                                       | + | Per Application <a href="#">§140.7(d)2</a> (See Table J) | + | Sales Frontage <a href="#">§140.7(d)2</a> (See Table K) | + | Ornamental <a href="#">§140.7(d)2</a> (See Table L) | + | Per Specific Area <a href="#">§140.7(d)2</a> (See Table M) | OR | Existing Power Allowance <a href="#">§141.0(b)2L</a> (See Table N) | =                  | Total Allowed (Watts) | ≥ | Total Actual (Watts) | <b>07 must be &gt;= 08</b> |
| 0  | + | 15   | + |   | + |   | + |  | OR |  | =                  | 15                    | ≥ | 15                   | COMPLIES                   |
| <b>Cutoff Compliance (See Table G for Details)</b>   |   |  |   |   |   |   |   |  |    |  |                    |                       |   |                      | Not Applicable             |
| <b>Controls Compliance (See Table H for Details)</b>   |   |  |   |   |   |   |   |  |    |  |                    |                       |   |                      | COMPLIES                   |

**D. EXCEPTIONAL CONDITIONS**

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

SAMPLE

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
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**F. OUTDOOR LIGHTING FIXTURE SCHEDULE**

For new or altered lighting systems demonstrating compliance with [§140.7](#) all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per [§141.0\(b\)2L](#) only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

**Designed Wattage:**

| 01                         | 02                             |                                 | 03                                  | 04                        | 05                                   | 06                            | 07                                     | 08           | 09  | 10                       |                          |
|----------------------------|--------------------------------|---------------------------------|-------------------------------------|---------------------------|--------------------------------------|-------------------------------|--|--------------|---|--------------------------|--------------------------|
| Name or Item Tag           | Complete Luminaire Description |                                 | Watts per luminaire <sup>1, 2</sup> | How is Wattage determined | Total number luminaires <sup>2</sup> | Luminaire Status <sup>3</sup> | Excluded per <a href="#">§140.7(a)</a> | Design Watts | Cutoff Req. > 6,200 initial lumen output <a href="#">§130.2(b)</a> <sup>4</sup> | Field Inspector          |                          |
|                            |                                | <input type="checkbox"/> Linear |                                     |                           |                                      |                               | <input type="checkbox"/>               |              |   | Pass                     | Fail                     |
| C                          | Fixture C                      | <input type="checkbox"/> Linear | 15                                  | Mfr. Spec <sup>1</sup>    | 1                                    | New                           | <input type="checkbox"/>               | 15           | NA: < 6200 lumens   | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Total Design Watts:</b> |                                |                                 |                                     |                           |                                      |                               |  | 15           |   |                          |                          |

\* NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved.

EX: Luminaire is lighting a statue; EXCEPTION 2 to [§130.2\(b\)](#)

<sup>1</sup>FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per [§130.0\(c\)](#)

<sup>2</sup> For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

<sup>3</sup> Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

<sup>4</sup> Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by [§130.2\(b\)](#)

**G. CUTOFF REQUIREMENTS (BUG)**

This section does not apply to this project.

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.0.001  
Schema Version: rev 20190401

Report Generated: 2019-12-28 12:47:49

## Outdoor Lighting

NRCC-LTO-E

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
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**H. OUTDOOR LIGHTING CONTROLS**

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

When an option having a \* is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

**Mandatory Controls**

| 01               | 02                                     | 03  | 04  | 05              |      |
|------------------|--|---|---|-----------------|------|
| Area Description | Shut-Off<br><a href="#">§130.2(c)1</a> | Auto-Schedule<br><a href="#">§130.2(c)2</a> | Motion Sensor<br><a href="#">§130.2(c)3</a> | Field Inspector |      |
|                  |  |   |   | Pass            | Fail |

\* NOTES: Controls with a \* require a note in the space below explaining how compliance is achieved.

EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to [§130.2\(c\)](#)

**I. LIGHTING POWER ALLOWANCE (per [§140.7](#) )**

This table includes areas using allowance calculations per [§140.7](#). General Hardscape Allowance is per [Table 140.7-A](#) while "Use it or lose it" Allowances are per [Table 140.7-B](#). Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

|   | 01   |   |   |  |
|---|--|---|---|--|
|   | <input type="checkbox"/> General Hardscape Allowance Table I (below) | "Use it or lose it" Allowance (select all that apply) (select all that apply) |   |  |
|   | <input checked="" type="checkbox"/> Per Application Table J          | <input type="checkbox"/> Sales Frontage Table K                               | <input type="checkbox"/> Ornamental Table L | <input type="checkbox"/> Per Specific Area Table M |
| Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4) |  |   |   |  |
| This section does not apply to this project.  |  |   |   |  |
| Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)    |  |   |   |  |
| This section does not apply to this project.  |  |   |   |  |

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | NRCC-LTO-E                        |
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**J. LIGHTING ALLOWANCE: PER APPLICATION**

This table includes areas using the wattage allowance per application from [Table 140.7-B](#).

| 01  | 02   | 03                           | 04                                  | 05                      | 06                         | 07                  | 08              | 09           | 10                           |
|---|--|------------------------------|-------------------------------------|-------------------------|----------------------------|---------------------|-----------------|--------------|------------------------------|
| Area Description                          | Application per <a href="#">Table 140.7-B</a> <sup>1</sup> | CALCULATED ALLOWANCE (Watts) |                                     |                         | DESIGN WATTS               |                     |                 |              | Additional Allowance (Watts) |
|   |  | # of Locations               | Allowance per Location <sup>2</sup> | Extra Allowance (Watts) | Luminaire Name or Item Tag | Watts per Luminaire | # of Luminaires | Design Watts |                              |
| Outdoor Lighting                          | Building Entrance/Exit                                     | 1                            | 19                                  | 19                      | C                          | 15                  | 1               | 15           | 15                           |
| Total Design Watts for this Area:         |  |                              |                                     |                         |                            |                     |                 | 15           |                              |
| <b>Total Allowance (Watts) All Areas:</b> |  |                              |                                     |                         |                            |                     |                 |              | 15                           |

<sup>1</sup> FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.

<sup>2</sup> The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per [Table 140.7-B](#).

<sup>3</sup> For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

**K. LIGHTING ALLOWANCE: SALES FRONTAGE**

This section does not apply to this project.

**L. LIGHTING ALLOWANCE: ORNAMENTAL**

This section does not apply to this project.

**M. LIGHTING ALLOWANCE: PER SPECIFIC AREA**

This section does not apply to this project.

**N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)**

This section does not apply to this project.

**Outdoor Lighting**

NRCC-LTO-E

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
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**O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCI/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/)*

| Yes                              | No                               | Form/Title   | Field Inspector          |                          |
|----------------------------------|----------------------------------|--|--------------------------|--------------------------|
|                                  |                                  |  | Pass                     | Fail                     |
| <input checked="" type="radio"/> | <input type="radio"/>            | NRCI-LTO-01-E - Must be submitted for all buildings  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. | <input type="checkbox"/> | <input type="checkbox"/> |

**P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>*

| Yes                              | No                    | Form/Title   | Field Inspector          |                          |
|----------------------------------|-----------------------|--|--------------------------|--------------------------|
|                                  |                       |  | Pass                     | Fail                     |
| <input checked="" type="radio"/> | <input type="radio"/> | NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires. | <input type="checkbox"/> | <input type="checkbox"/> |

SAMPLE

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

**Outdoor Lighting**

NRCC-LTO-E

|                                  |                  |                                   |
|----------------------------------|------------------|-----------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-LTO-E</b>                 |
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**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

|  |   |
|--|---|
| Documentation Author Name:<br>David Hensel, PE | Documentation Author Signature:                                   |
| Company:<br>Hensel Consulting Engineers, Inc.  | Signature Date:   |
| Address:<br>5857 Owens Ave., 3rd Floor         | CEA/ HERS Certification Identification (if applicable):<br>M32901 |
| City/State/Zip:<br>Carlsbad CA 92008           | Phone:<br>(619) 665-3259  |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

|  |                                 |
|--|---------------------------------|
| Responsible Designer Name:<br>Jon Doe, AIA | Responsible Designer Signature: |
| Company:<br>Jon Doe Design                 | Date Signed:<br>2019-12-28      |
| Address:<br>123 Easy St.                   | License:<br>123456              |
| City/State/Zip:<br>San Diego CA 92000      | Phone:<br>858-123-4567          |

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

**Mechanical Systems**

NRCC-MCH-E

**CERTIFICATE OF COMPLIANCE**

NRCC-MCH-E

*This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in [§140.4](#), or [§141.0\(b\)2](#) for alterations.*

|                         |                  |                       |                       |
|-------------------------|------------------|-----------------------|-----------------------|
| <b>Project Name:</b>    | Namaste Nails TI | <b>Report Page:</b>   | <b>(Page 1 of 14)</b> |
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**A. GENERAL INFORMATION**

|                                     |                                 |                                     |                            |                                      |                                |
|-------------------------------------|---------------------------------|-------------------------------------|----------------------------|--------------------------------------|--------------------------------|
| 01                                  | Project Location (city)         | Sunnvale                            | 04                         | Total Conditioned Floor Area         | 1676                           |
| 02                                  | Climate Zone                    | 4                                   | 05                         | Total Unconditioned Floor Area       | 0                              |
| 03                                  | Occupancy Types Within Project: |                                     | 06                         | # of Stories (Habitable Above Grade) | 1                              |
| <input checked="" type="checkbox"/> | Office (B)                      | <input checked="" type="checkbox"/> | Retail (M)                 | <input checked="" type="checkbox"/>  | Non-refrigerated Warehouse (S) |
| <input type="checkbox"/>            | Hotel/ Motel Guest Rooms (R-1)  | <input type="checkbox"/>            | School (E)                 | <input type="checkbox"/>             | Healthcare Facility (H)        |
| <input type="checkbox"/>            | High-Rise Residential (R-2/R-3) | <input type="checkbox"/>            | Relocatable Class Bldg (E) | <input checked="" type="checkbox"/>  | Other (write in)               |

**B. PROJECT SCOPE**

*This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in [§140.4](#), or [§141.0\(b\)2](#) for alterations.*

| 01  | 02   | 03   |
|---|--|--|
| Air System(s)   | Wet System Components                              | Dry System Components                                  |
| <input checked="" type="checkbox"/> Heating Air System  | <input type="checkbox"/> Water Economizer          | <input type="checkbox"/> Air Economizer                |
| <input checked="" type="checkbox"/> Cooling Air System  | <input checked="" type="checkbox"/> Pumps          | <input type="checkbox"/> Electric Resistance Heat      |
| Mechanical Controls                                     | <input type="checkbox"/> Hydronic System Piping    | <input checked="" type="checkbox"/> Fan Systems        |
| <input checked="" type="checkbox"/> Mechanical Controls | <input checked="" type="checkbox"/> Cooling Towers | <input type="checkbox"/> Ductwork                      |
|   | <input type="checkbox"/> Chillers                  | <input checked="" type="checkbox"/> Ventilation        |
|   | <input type="checkbox"/> Boilers                   | <input type="checkbox"/> Zonal Systems/ Terminal Boxes |

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft



**Mechanical Systems**

NRCC-MCH-E

|                                  |                  |                                    |
|----------------------------------|------------------|------------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-MCH-E</b>                  |
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**C. COMPLIANCE RESULTS**

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

| 01   | AND | 02                                 | AND | 03   | AND | 04   | AND | 05                                    | AND | 06   | AND      | 07  | AND | 08   | 09                 |
|--|-----|------------------------------------|-----|--|-----|--|-----|---------------------------------------|-----|--|----------|---|-----|--|--------------------|
| System Summary<br><a href="#">§110.1</a> ,<br><a href="#">§110.2</a> ,<br><a href="#">§140.4</a> |     | Pumps<br><a href="#">§140.4(k)</a> |     | Fans/<br>Economizers<br><a href="#">§140.4(c)</a> ,<br><a href="#">§140.4(e)</a> |     | System Controls<br><a href="#">§110.2</a> ,<br><a href="#">§120.2</a> ,<br><a href="#">§140.4(f)</a> |     | Ventilation<br><a href="#">§120.1</a> |     | Terminal Box Controls<br><a href="#">§140.4(d)</a> |          | Distribution<br><a href="#">§120.3</a> ,<br><a href="#">§140.4(l)</a> |     | Cooling Towers<br><a href="#">§110.2(e)2</a> | Compliance Results |
| (See Table F)  |     | (See Table G)                      |     | (See Table H)  |     | (See Table I)  |     | (See Table J)                         |     | (See Table K)                                      |          | (See Table L)   |     | (See Table M)                                |                    |
| Yes  | AND | Yes                                | AND | Yes  | AND | Yes  | AND | Yes                                   | AND |  | AND      |   | AND |  | COMPLIES           |
| <b>Mandatory Measures Compliance (See Table Q for Details)</b>                                   |     |                                    |     |  |     |  |     |                                       |     |  | COMPLIES |   |     |  |                    |

**D. EXCEPTIONAL CONDITIONS**

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in [§110.1](#) and [§110.2\(a\)](#) and prescriptive requirements found in [§140.4\(a\)](#), [§140.4\(b\)](#) and [§140.4\(k\)](#) or [§141.0\(b\)2](#) for alterations.

**Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)**

| 01               | 02  | 03   | 04   | 05   | 06             | 07                            | 08                            | 09             | 10                 | 11                          |  |  |
|------------------|---|--|--|--|----------------|-------------------------------|-------------------------------|----------------|--------------------|-----------------------------|--|--|
| Name or Item Tag | Equipment Category per <a href="#">Tables 110.2</a> | Equipment Type per <a href="#">Tables 110.2</a> & <a href="#">Title 20</a> | Smallest Size Available <sup>1</sup> <a href="#">§140.4(a)</a> | Equipment Sizing per Mechanical Schedule (Btu/h)<br><a href="#">§140.4</a> (a&b) |                |                               |                               |                |                    |                             |  |  |
|                  |   |  |  | Heating Output <sup>2,3</sup>  |                |                               | Cooling Output <sup>2,3</sup> |                |                    |                             |  |  |
|                  |   |  |  | Per Design (kBtu/h)  | Rated (kBtu/h) | Supp. Heating Output (kBtu/h) | Sensible Per Design (kBtu/h)  | Rated (kBtu/h) | Total Heating Load | Total Sensible Cooling Load |  |  |

Registration Number:

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Registration Provider: EnergySoft

**Mechanical Systems**

NRCC-MCH-E

|                                  |                  |                                    |
|----------------------------------|------------------|------------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-MCH-E</b>                  |
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**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

|        |                    |              |     |       |       |   |       |       |       |       |
|--------|--------------------|--------------|-----|-------|-------|---|-------|-------|-------|-------|
| WSHP-1 | Unitary Heat Pumps | Water source | Yes | 44132 | 48000 | 0 | 38714 | 34500 | 21885 | 24362 |
| WSHP-2 | Unitary Heat Pumps | Water source | Yes | 42243 | 48000 | 0 | 39694 | 34500 | 17922 | 23221 |

<sup>1</sup>FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per [§140.4\(a\)](#). Healthcare facilities are excepted.

<sup>2</sup>It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

<sup>3</sup>If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

<sup>4</sup>Authority Having Jurisdiction may ask for load calculations used for compliance per [§140.4\(b\)](#).

| Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP)) |                       |                       |                 |   |                   |                 |   |                   |  |
|--|-----------------------|-----------------------|-----------------|---|-------------------|-----------------|---|-------------------|--|
| 01   | 02                    | 03                    | 04              | 05  | 06                | 07              | 08  | 09                |  |
| Name or Item Tag   | Size Category (Btu/h) | Rating Condition (°F) | Heating Mode    |   |                   | Cooling Mode    |   |                   |  |
|  |                       |                       | Efficiency Unit | Minimum Efficiency Required per Tables <a href="#">110.2</a> / <a href="#">Title 20</a> | Design Efficiency | Efficiency Unit | Minimum Efficiency Required per Tables <a href="#">110.2</a> / <a href="#">Title 20</a> | Design Efficiency |  |
| WSHP-1   | 65,000                |                       | COP             | 4.3   | 4.2               | EER             | 13.0  | 16.1              |  |
| WSHP-2   | 65,000                |                       | COP             | 4.3   | 4.2               | EER             | 13.0  | 16.1              |  |

| Heat Rejection Equipment (Cooling Towers, Condensers, Waterside Economizers) Efficiency and Controls |   |     |                       |                   |   |        |     |  |   |  |                                     |
|--|---|-----|-----------------------|-------------------|---|--------|-----|--|---|--|-------------------------------------|
| 01   | 02  | 03  | 04                    | 05                | 06  | 07     | 08  | 09   | 10  | 11   | 12                                  |
| Name or Item Tag   | Equipment Type <sup>1</sup>                     | Qty | Rating Condition (°F) | Rated Performance | Minimum Required Performance per <a href="#">Table 110.2-G</a> and <a href="#">§140.4(h)5</a> |        |     | Tower Flow Turndown <a href="#">§140.4(h)3</a> | Fan Control in Multiple Cell Equipment <a href="#">§140.4(h)5</a> | Economizer Controls <a href="#">§140.4(h)5</a> | Condenser Water Temp Reset Controls |
| CT-1(E)  | Propeller/ axial fan open-circuit cooling tower | 1   |                       | 0                 | 42.1 gpm/hp   | GPM/Hp | Yes | NA: Single condenser water pump                | Yes   |  | No                                  |

<sup>1</sup>FOOTNOTES: Centrifugal fan open-circuit towers are not allowed for rated capacities  $\geq 900$  gpm at 95 °F condenser water return, 85 °F condenser water supply and 75 °F outdoor wet-bulb temperature. Exceptions may apply per [§140.4\(h\)4](#).

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

**Mechanical Systems**

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

|                                  |                  |                                    |
|----------------------------------|------------------|------------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-MCH-E</b>                  |
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**G. PUMPS**

This table is used to demonstrate compliance with Prescriptive hydronic system requirements found in [§140.4\(k\)](#) applicable to pumps < 5hp.

| 01               | 02              | 03  | 04 | 05                                     | 06                           | 07                 | 08                           |
|------------------|-----------------|-----|----|--|------------------------------|--------------------|------------------------------|
| Name or Item Tag | Equipment Type  | Qty | HP | Controls per <a href="#">§140.4(k)</a> |                              |                    |                              |
|                  |                 |     |    | Variable Flow                          | Hydronic Heat Pump Isolation | VSD on Pumps > 5HP | Differential Pressure Sensor |
| CW               | Condenser water | 1   | 1  | Yes                                    | Yes                          | Yes                | Required                     |

**H. FAN SYSTEMS & AIR ECONOMIZERS**

This table is used to demonstrate compliance with prescriptive requirements found in [§140.4\(c\)](#), [§140.4\(e\)](#) and [§140.4\(m\)](#) for fan systems. Fan systems serving healthcare facilities, or those serving only process loads, are exempt from these requirements and do not need to be included in Table H.

| System Name:                              | WSHP-1       | Economizer: <sup>1</sup> | NA: 54 kBtu/h cooling               | Economizer Controls:       | Designed per and (m) | System Fan Type:   | Fixed Flow                          |
|---|--------------|--------------------------|-------------------------------------|----------------------------|----------------------|--|-------------------------------------|
| 01  | 02           | 03                       | 04                                  | 05                         | 06                   | 07   | 08                                  |
| Fan Name or Item Tag                      | Fan Function | Qty                      | Maximum Design Supply Airflow (CFM) | HP Unit <sup>2</sup>       | Design HP            | Fan Power Pressure Drop Adjustment - <a href="#">Table 140.4-B</a> |                                     |
|   |              |                          |                                     |                            |                      | Device   | Design Airflow through Device (CFM) |
| SF  | Supply       | 1                        | 1600                                | BHP                        | 0.5                  |  |                                     |
| Total System Design Supply Airflow (CFM): |              |                          | 1600                                | Total System Design (B)HP: | 0.5                  | <b>Maximum System Fan Power (B)HP:</b>                             | 1.5                                 |
| System Name:                              | WSHP-1       | Economizer: <sup>1</sup> | NA: 54 kBtu/h cooling               | Economizer Controls:       | Designed per and (m) | System Fan Type:   | Fixed Flow                          |
| 01  | 02           | 03                       | 04                                  | 05                         | 06                   | 07   | 08                                  |
| Fan Name or Item Tag                      | Fan Function | Qty                      | Maximum Design Supply Airflow (CFM) | HP Unit <sup>2</sup>       | Design HP            | Fan Power Pressure Drop Adjustment - <a href="#">Table 140.4-B</a> |                                     |
|   |              |                          |                                     |                            |                      | Device   | Design Airflow through Device (CFM) |
| SF  | Supply       | 1                        | 1600                                | BHP                        | 0.5                  |  |                                     |
| Total System Design Supply Airflow (CFM): |              |                          | 1600                                | Total System Design (B)HP: | 0.5                  | <b>Maximum System Fan Power (B)HP:</b>                             | 1.5                                 |

<sup>1</sup> FOOTNOTES: Computer room economizers must meet requirements of [§140.9\(a\)](#) and will be documented on the NRCC-PRC-E document.

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

**Mechanical Systems**

NRCC-MCH-E

|                                  |                  |                                    |
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**H. FAN SYSTEMS & AIR ECONOMIZERS**

<sup>2</sup> If total filter pressure drop (SPa) is greater than 1 in WC, or 245 Pascal then enter it and total fan pressure drop across the fan (SPf) for system.

**I. SYSTEM CONTROLS**

This table is used to demonstrate compliance with mandatory controls in [§110.2](#) and [§120.2](#) and prescriptive controls in [§140.4\(f\)](#) and (n) or requirements in [§141.0\(b\)2E](#) for altered space conditioning systems.

| 01          | 02            | 03   | 04  | 05  | 06  | 07  | 08   | 09  |
|-------------|---------------|--|---|---|---|---|--|---|
| System Name | System Zoning | Conditioned Floor Area Being Served (ft <sup>2</sup> ) | Thermostats <a href="#">§110.2(b)</a> & (c) <sup>1</sup> , <a href="#">§120.2(a)</a> or <a href="#">§141.0(b)2E</a> | Shut-Off Controls <a href="#">§120.2(e)</a> | Isolation Zone Controls <a href="#">§120.2(g)</a> | Demand Response <a href="#">§120.2(b)</a> | Supply Air Temp. Reset <a href="#">§140.4(f)</a> | Window Interlocks per <a href="#">§140.4(n)</a> |
| WSHP-1      | Single zone   | 25,000 ft <sup>2</sup>                                 | Energy Management System (EMS)  | NA: 7 day per                               | 4 Hour Timer                                      | EMCS                                      | NA: Alteration                                   | NA: Alteration Project                          |
| WSHP-2      | Single zone   | 25,000 ft <sup>2</sup>                                 | Energy Management System (EMS)  | NA: 7 day per                               | 4 Hour Timer                                      | EMCS                                      | NA: Alteration                                   | NA: Alteration Project                          |

<sup>1</sup>FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

\*Notes: Controls with a \* require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with [§140.4\(d\)](#); EXCEPTION 1 to [§140.4\(f\)](#)

**J. VENTILATION AND INDOOR AIR QUALITY**

This table is used to demonstrate compliance with mandatory ventilation requirements in [§120.1](#) and [§120.2\(e\)3B](#) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

|    |                          |   |
|----|--------------------------|---|
| 01 | <input type="checkbox"/> | Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.                            |
| 02 | <input type="checkbox"/> | Check this box if the project included new or altered high-rise residential dwelling units.   |
| 03 | <input type="checkbox"/> | Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per <a href="#">§120.1(c)2</a> . |

**Nonresidential and Hotel/ Motel Ventilation Systems**

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

**Mechanical Systems**

NRCC-MCH-E

|                                  |                  |                                    |
|----------------------------------|------------------|------------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-MCH-E</b>                  |
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**J. VENTILATION AND INDOOR AIR QUALITY**

| 04                        |   | 05  |                           |                          | 06                             |  |                         | 07   |   |
|---------------------------|---|---|---------------------------|--------------------------|--------------------------------|--|-------------------------|--|---|
| System Name               | WSHP-1  | System Design OA CFM Airflow <sup>1</sup> |                           | 381.65                   | System Design Transfer Air CFM |  | 0                       | Air Filtration per <a href="#">§120.1(c)</a> and <a href="#">§141.0(b)2</a> <sup>2</sup><br>Provided per <a href="#">§120.1(c)</a> (NR and Hotel/Motel)) |   |
| 08                        | 09  | 10  | 11                        | 12                       | 13                             | 14                                       | 15                      | 16   |   |
| Space Name<br>of item Tag | Mechanical Ventilation Required per <a href="#">§120.1(c)3</a> <sup>3</sup> |   |                           |                          |                                | Exh. Vent per <a href="#">§120.1(c)4</a> |                         |  | DCV or Sensor Controls per <a href="#">§120.1(d)3</a> ,<br><a href="#">§120.1(d)5</a> , and <a href="#">§120.1(e)3</a> <sup>6</sup> |
|                           | Occupancy Type <sup>4</sup>   | Conditioned Floor Area (ft <sup>2</sup> ) | # of Shower heads/toilets | # of people <sup>5</sup> | Required Min OA CFM            | Required Min CFM                         | Provided per Design CFM |  |   |
| Salon Area (Sanctuary)    | Barbershop  | 702                                       |                           |                          | 280.8                          | 351                                      | 0                       |  | DCV<br>NA: Not required per <a href="#">§120.1(d)3</a>  |
|                           |   | Occ Sensor                                |                           |                          |                                |  |                         |  |   |
| 04                        |   | 05  |                           |                          | 06                             |  |                         | 07   |   |
| System Name               | WSHP-1  | System Design OA CFM Airflow <sup>1</sup> |                           | 381.65                   | System Design Transfer Air CFM |  | 0                       | Air Filtration per <a href="#">§120.1(c)</a> and <a href="#">§141.0(b)2</a> <sup>2</sup><br>Provided per <a href="#">§120.1(c)</a> (NR and Hotel/Motel)) |   |
| 08                        | 09  | 10  | 11                        | 12                       | 13                             | 14                                       | 15                      | 16   |   |
| Space Name<br>of item Tag | Mechanical Ventilation Required per <a href="#">§120.1(c)3</a> <sup>3</sup> |   |                           |                          |                                | Exh. Vent per <a href="#">§120.1(c)4</a> |                         |  | DCV or Sensor Controls per <a href="#">§120.1(d)3</a> ,<br><a href="#">§120.1(d)5</a> , and <a href="#">§120.1(e)3</a> <sup>6</sup> |
|                           | Occupancy Type <sup>4</sup>   | Conditioned Floor Area (ft <sup>2</sup> ) | # of Shower heads/toilets | # of people <sup>5</sup> | Required Min OA CFM            | Required Min CFM                         | Provided per Design CFM |  |   |
| Salon Area (Sanctuary)    | Barbershop  | 702                                       |                           |                          | 280.8                          | 351                                      | 0                       |  | DCV<br>NA: Not required per <a href="#">§120.1(d)3</a>  |
|                           |   | Occ Sensor                                |                           |                          |                                |  |                         |  |   |
| Break Area                | Break room  | 151                                       |                           |                          | 75.5                           | 0  | 0                       |  | DCV<br>NA: Not required per <a href="#">§120.1(d)3</a>  |
|                           |   | Occ Sensor                                |                           |                          |                                |  |                         |  |   |

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

## Mechanical Systems

NRCC-MCH-E

|                                  |                  |                                    |
|----------------------------------|------------------|------------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-MCH-E</b>                  |
| <b>Project Name:</b>             | Namaste Nails TI | <b>Report Page:</b> (Page 7 of 14) |
| <b>Project Address:</b>          |                  | <b>Date Prepared:</b> 12/28/2019   |

| J. VENTILATION AND INDOOR AIR QUALITY |   |   |                           |                          |                                |  |                         |  |  |
|---------------------------------------|---|---|---------------------------|--------------------------|--------------------------------|--|-------------------------|--|--|
| 04                                    |   | 05  |                           |                          | 06                             |  |                         | 07   |  |
| System Name                           | WSHP-1  | System Design OA CFM Airflow <sup>1</sup> |                           | 381.65                   | System Design Transfer Air CFM |  | 0                       | Air Filtration per <a href="#">§120.1(c)</a> and <a href="#">§141.0(b)2</a> <sup>2</sup><br>Provided per <a href="#">§120.1(c)</a> (NR and Hotel/Motel)) |  |
| 08                                    | 09  | 10  | 11                        | 12                       | 13                             | 14                                       | 15                      | 16   |  |
| Space Name of item Tag                | Mechanical Ventilation Required per <a href="#">§120.1(c)3</a> <sup>3</sup> |   |                           |                          |                                | Exh. Vent per <a href="#">§120.1(c)4</a> |                         |  | DCV or Sensor Controls per <a href="#">§120.1(d)3</a> , <a href="#">§120.1(d)5</a> , and <a href="#">§120.1(e)3</a> <sup>6</sup> |
|                                       | Occupancy Type <sup>4</sup>   | Conditioned Floor Area (ft <sup>2</sup> ) | # of Shower heads/toilets | # of people <sup>5</sup> | Required Min OA CFM            | Required Min CFM                         | Provided per Design CFM |  |  |
| Salon Area (Sanctuary)                | Barbershop  | 702                                       |                           |                          | 280.8                          | 351                                      | 0                       |  | DCV<br>NA: Not required per <a href="#">§120.1(d)3</a>   |
| Break Area                            | Break room  | 151                                       |                           |                          | 75.5                           | 0  | 0                       |  | DCV<br>NA: Not required per <a href="#">§120.1(d)3</a>   |
| Restroom                              | Corridor Transition   | 45  |                           |                          | 6.75                           | 0  | 0                       |  | DCV<br>NA: Not required per <a href="#">§120.1(d)3</a>   |
| 04                                    |   | 05  |                           |                          | 06                             |  |                         | 07   |  |
| System Name                           | WSHP-1  | System Design OA CFM Airflow <sup>1</sup> |                           | 381.65                   | System Design Transfer Air CFM |  | 0                       | Air Filtration per <a href="#">§120.1(c)</a> and <a href="#">§141.0(b)2</a> <sup>2</sup><br>Provided per <a href="#">§120.1(c)</a> (NR and Hotel/Motel)) |  |
| 08                                    | 09  | 10  | 11                        | 12                       | 13                             | 14                                       | 15                      | 16   |  |
| Space Name of item Tag                | Mechanical Ventilation Required per <a href="#">§120.1(c)3</a> <sup>3</sup> |   |                           |                          |                                | Exh. Vent per <a href="#">§120.1(c)4</a> |                         |  | DCV or Sensor Controls per <a href="#">§120.1(d)3</a> , <a href="#">§120.1(d)5</a> , and <a href="#">§120.1(e)3</a> <sup>6</sup> |
|                                       | Occupancy Type <sup>4</sup>   | Conditioned Floor Area (ft <sup>2</sup> ) | # of Shower heads/toilets | # of people <sup>5</sup> | Required Min OA CFM            | Required Min CFM                         | Provided per Design CFM |  |  |

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## Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

|                                  |                  |                                    |
|----------------------------------|------------------|------------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-MCH-E</b>                  |
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**J. VENTILATION AND INDOOR AIR QUALITY**

|                        |   |   |                           |                          |                                |  |                         |  |  |  |  |
|------------------------|---|---|---------------------------|--------------------------|--------------------------------|--|-------------------------|--|--|--|--|
| Salon Area (Sanctuary) | Barbershop  | 702                                       |                           |                          | 280.8                          | 351                                      | 0                       | DCV  | NA: Not required per <a href="#">§120.1(d)3</a>  |  |  |
|                        |   |   |                           |                          |                                |  |                         | Occ Sensor   |  |  |  |
| Break Area             | Break room  | 151                                       |                           |                          | 75.5                           | 0  | 0                       | DCV  | NA: Not required per <a href="#">§120.1(d)3</a>  |  |  |
|                        |   |   |                           |                          |                                |  |                         | Occ Sensor   |  |  |  |
| Restroom               | Corridor Transition   | 45  |                           |                          | 6.75                           | 0  | 0                       | DCV  | NA: Not required per <a href="#">§120.1(d)3</a>  |  |  |
|                        |   |   |                           |                          |                                |  |                         | Occ Sensor   |  |  |  |
| Clean Room (Storage)   | Occupiable storage rooms for liquids/ gels                                  | 124                                       |                           |                          | 0                              | 186                                      | 0                       | DCV  | NA: Not required per <a href="#">§120.1(d)3</a>  |  |  |
|                        |   |   |                           |                          |                                |  |                         | Occ Sensor   |  |  |  |
| 04                     |   | 05  |                           |                          | 06                             |  |                         | 07   |  |  |  |
| System Name            | WSHP-2  | System Design OA CFM Airflow <sup>1</sup> |                           | 168.3                    | System Design Transfer Air CFM |  | 0                       | Air Filtration per <a href="#">§120.1(c)</a> and <a href="#">§141.0(b)2</a> <sup>2</sup> |  |  |  |
|                        |   |   |                           |                          |                                |  |                         | Provided per <a href="#">§120.1(c)</a> (NR and Hotel/Motel))                             |  |  |  |
| 08                     | 09  | 10  | 11                        | 12                       | 13                             | 14                                       | 15                      | 16   |  |  |  |
| Space Name of item Tag | Mechanical Ventilation Required per <a href="#">§120.1(c)3</a> <sup>3</sup> |   |                           |                          |                                | Exh. Vent per <a href="#">§120.1(c)4</a> |                         |  | DCV or Sensor Controls per <a href="#">§120.1(d)3</a> , <a href="#">§120.1(d)5</a> , and <a href="#">§120.1(e)3</a> <sup>5</sup> |  |  |
|                        | Occupancy Type <sup>4</sup>   | Conditioned Floor Area (ft <sup>2</sup> ) | # of Shower heads/toilets | # of people <sup>5</sup> | Required Min OA CFM            | Required Min CFM                         | Provided per Design CFM |  |  |  |  |
| Reception (Retail)     | Retail sales  | 407                                       |                           |                          | 101.75                         | 0  | 0                       | DCV  | NA: Not required per <a href="#">§120.1(d)3</a>  |  |  |
|                        |   |   |                           |                          |                                |  |                         | Occ Sensor   |  |  |  |
| 04                     |   | 05  |                           |                          | 06                             |  |                         | 07   |  |  |  |
| System Name            | WSHP-2  | System Design OA CFM Airflow <sup>1</sup> |                           | 168.3                    | System Design Transfer Air CFM |  | 0                       | Air Filtration per <a href="#">§120.1(c)</a> and <a href="#">§141.0(b)2</a> <sup>2</sup> |  |  |  |
|                        |   |   |                           |                          |                                |  |                         | Provided per <a href="#">§120.1(c)</a> (NR and Hotel/Motel))                             |  |  |  |
| 08                     | 09  | 10  | 11                        | 12                       | 13                             | 14                                       | 15                      | 16   |  |  |  |

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Registration Date/Time:

Registration Provider: EnergySoft

## Mechanical Systems

NRCC-MCH-E

|                                  |                  |                                    |
|----------------------------------|------------------|------------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-MCH-E</b>                  |
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**J. VENTILATION AND INDOOR AIR QUALITY**

| Space Name<br>ot item Tag | Mechanical Ventilation Required per <a href="#">§120.1(c)3</a> <sup>3</sup> |   |                                  |                             |                                   | Exh. Vent per <a href="#">§120.1(c)4</a> |                            | DCV or Sensor Controls per <a href="#">§120.1(d)3</a> ,<br><a href="#">§120.1(d)5</a> , and <a href="#">§120.1(e)3</a> <sup>6</sup> |  |
|---------------------------|---|---|----------------------------------|-----------------------------|-----------------------------------|--|----------------------------|---|--|
|                           | Occupancy Type <sup>4</sup>   | Conditioned<br>Floor Area<br>(ft <sup>2</sup> ) | # of Shower<br>heads/<br>toilets | # of<br>people <sup>5</sup> | Required<br>Min OA<br>CFM         | Required<br>Min CFM                      | Provided per Design<br>CFM |   |  |
| Reception<br>(Retail)     | Retail sales  | 407   |                                  |                             | 101.75                            | 0  | 0                          | DCV   | NA: Not required per<br><a href="#">§120.1(d)3</a> |
|                           |   |   |                                  |                             |                                   |  |                            | Occ Sensor  |  |
| Salon Area<br>(Cocoon)    | Barbershop  | 118   |                                  |                             | 47.2                              | 59                                       | 0                          | DCV   | NA: Not required per<br><a href="#">§120.1(d)3</a> |
|                           |   |   |                                  |                             |                                   |  |                            | Occ Sensor  |  |
|                           | 04  |   | 05                               |                             |                                   | 06                                       |                            |   | 07   |
| System Name               | WSHP-2  | System Design OA CFM<br>Airflow <sup>1</sup>    |                                  | 168.3                       | System Design<br>Transfer Air CFM |  | 0                          | Air Filtration per <a href="#">§120.1(c)</a> and <a href="#">§141.0(b)2</a> <sup>2</sup>  |  |
|                           |   |   |                                  |                             |                                   |  |                            | Provided per <a href="#">§120.1(c)</a> (NR and<br>Hotel/Motel))   |  |
| 08                        | 09  | 10  | 11                               | 12                          | 13                                | 14                                       | 15                         | 16  |  |
| Space Name<br>ot item Tag | Mechanical Ventilation Required per <a href="#">§120.1(c)3</a> <sup>3</sup> |   |                                  |                             |                                   | Exh. Vent per <a href="#">§120.1(c)4</a> |                            | DCV or Sensor Controls per <a href="#">§120.1(d)3</a> ,<br><a href="#">§120.1(d)5</a> , and <a href="#">§120.1(e)3</a> <sup>6</sup> |  |
|                           | Occupancy Type <sup>4</sup>   | Conditioned<br>Floor Area<br>(ft <sup>2</sup> ) | # of Shower<br>heads/<br>toilets | # of<br>people <sup>5</sup> | Required<br>Min OA<br>CFM         | Required<br>Min CFM                      | Provided per Design<br>CFM |   |  |
| Reception<br>(Retail)     | Retail sales  | 407   |                                  |                             | 101.75                            | 0  | 0                          | DCV   | NA: Not required per<br><a href="#">§120.1(d)3</a> |
|                           |   |   |                                  |                             |                                   |  |                            | Occ Sensor  |  |
| Salon Area<br>(Cocoon)    | Barbershop  | 118   |                                  |                             | 47.2                              | 59                                       | 0                          | DCV   | NA: Not required per<br><a href="#">§120.1(d)3</a> |
|                           |   |   |                                  |                             |                                   |  |                            | Occ Sensor  |  |
| Private Office            | Office space  | 75  |                                  |                             | 11.25                             | 0  | 0                          | DCV   | NA: Not required per<br><a href="#">§120.1(d)3</a> |
|                           |   |   |                                  |                             |                                   |  |                            | Occ Sensor  |  |

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**Mechanical Systems**

NRCC-MCH-E

|                                  |                  |                                     |
|----------------------------------|------------------|-------------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-MCH-E</b>                   |
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**J. VENTILATION AND INDOOR AIR QUALITY**

| 04                        |   | 05  |                           |                          | 06                             |  |                         | 07  |   |
|---------------------------|---|---|---------------------------|--------------------------|--------------------------------|--|-------------------------|---|---|
| System Name               | WSHP-2  | System Design OA CFM Airflow <sup>1</sup> |                           | 168.3                    | System Design Transfer Air CFM |  | 0                       | Air Filtration per <a href="#">§120.1(c)</a> and <a href="#">§141.0(b)2</a><br>Provided per <a href="#">§120.1(c)</a> (NR and Hotel/Motel)) |   |
| 08                        | 09  | 10  | 11                        | 12                       | 13                             | 14                                       | 15                      | 16  |   |
| Space Name<br>or item Tag | Mechanical Ventilation Required per <a href="#">§120.1(c)3</a> <sup>3</sup> |   |                           |                          |                                | Exh. Vent per <a href="#">§120.1(c)4</a> |                         |   | DCV or Sensor Controls per <a href="#">§120.1(d)3</a> ,<br><a href="#">§120.1(d)5</a> , and <a href="#">§120.1(e)3</a> <sup>6</sup> |
|                           | Occupancy Type <sup>4</sup>   | Conditioned Floor Area (ft <sup>2</sup> ) | # of Shower heads/toilets | # of people <sup>5</sup> | Required Min OA CFM            | Required Min CFM                         | Provided per Design CFM |   |   |
| Reception (Retail)        | Retail sales  | 407                                       |                           |                          | 101.75                         | 0  | 0                       |   | DCV<br>NA: Not required per <a href="#">§120.1(d)3</a>  |
| Salon Area (Cocoon)       | Barbershop  | 118                                       |                           |                          | 47.2                           | 59                                       | 0                       |   | DCV<br>NA: Not required per <a href="#">§120.1(d)3</a>  |
| Private Office            | Office space  | 75  |                           |                          | 11.25                          | 0  | 0                       |   | DCV<br>NA: Not required per <a href="#">§120.1(d)3</a>  |
| Restroom                  | Corridor Transition   | 54  |                           |                          | 8.1                            | 0  | 0                       |   | DCV<br>NA: Not required per <a href="#">§120.1(d)3</a>  |
|                           |   |   |                           |                          |                                |  |                         |   | Occ Sensor  |

<sup>1</sup> FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

<sup>2</sup> Air filtration requirements apply to the following three system types per [§120.1\(c\)1A](#) : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

<sup>3</sup> Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

<sup>4</sup> See [Standards Tables 120.1-A](#) and 120.1-B.

<sup>5</sup> For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

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**Mechanical Systems**

NRCC-MCH-E

|                                  |                  |                                     |
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**J. VENTILATION AND INDOOR AIR QUALITY**

<sup>6</sup> [§120.2\(e\)3](#) requires systems serving rooms that are required by [§130.1\(c\)](#) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft<sup>2</sup> or smaller, multipurpose rooms less than 1,000 ft<sup>2</sup>, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by [§130.1\(c\)](#).

**K. TERMINAL BOX CONTROLS**

This section does not apply to this project.

**L. DISTRIBUTION (DUCTWORK and PIPING)**

This section does not apply to this project.

**M. COOLING TOWERS**

This table is used to demonstrate compliance with mandatory requirements in [§110.2\(e\)2](#) for cooling towers with a rated capacity > 150 tons. This table calculates the maximum Cycles of Concentration using the Langelier Saturation Index (LSI) calculations per [§110.2\(e\)2](#).

|                  |                                     |  |                  |                         |              |                               |                               |                                  |                     |  |
|------------------|-------------------------------------|--|------------------|-------------------------|--------------|-------------------------------|-------------------------------|----------------------------------|---------------------|--|
| 01               | <input checked="" type="checkbox"/> | Check the box if the project is showing calculations on the plans, or attaching the calculations instead of completing this Table. |                  |                         |              |                               |                               |                                  |                     |  |
| 02               | 03                                  | 04   | 05               | 06                      | 07           | 08                            | 09                            | 10                               | 11                  |  |
| Name or Item Tag | Design Conditions                   |  | Rated Conditions | Maximum Skin Temp ( °F) | Conductivity | M-Alkalinity                  | Calcium Hardness              | Magnesium Hardness               | Target Tower Cycles |  |
|                  | Design GPM                          | Min Flow GPM   | GPM/HP           |                         |              |                               |                               |                                  |                     |  |
|                  |                                     |  |                  |                         |              | Calculated pH @ Target Cycles | pH Saturation @ Target Cycles | Tower LSI Based on Calculated pH | Complies            |  |

**N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCI/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/)

| Yes                              | No                    | Form/Title  | Field Inspector          |                          |
|----------------------------------|-----------------------|---|--------------------------|--------------------------|
|                                  |                       |   | Pass                     | Fail                     |
| <input checked="" type="radio"/> | <input type="radio"/> | NRCI-MCH-01-E - Must be submitted for all buildings | <input type="checkbox"/> | <input type="checkbox"/> |

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

**Mechanical Systems**

NRCC-MCH-E

|                                  |                  |                                     |
|----------------------------------|------------------|-------------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-MCH-E</b>                   |
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**O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCA/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/)

| Yes                              | No                               | Form/Title   | Field Inspector          |                          |
|----------------------------------|----------------------------------|--|--------------------------|--------------------------|
|                                  |                                  |  | Pass                     | Fail                     |
| <input checked="" type="radio"/> | <input type="radio"/>            | NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.   | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="radio"/> | <input type="radio"/>            | NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".   | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-04-A - Air Distribution Duct Leakage  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-05-A - Air Economizer Controls  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to <a href="#">§120.1(c)3</a> ) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO <sub>2</sub> ) concentration setpoints.  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-07-A Supply Fan Variable Flow Controls  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="radio"/> | <input type="radio"/>            | NRCA-MCH-08-A Valve Leakage Test   | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-09-A Supply Water Temperature Reset Controls  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-10-A Hydronic System Variable Flow Controls   | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-11-A Automatic Demand Shed Controls   | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-12-A FDD for Packaged Direct Expansion Units  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy System DX AC Systems are included in the scope permit applicant should move this form to "Yes".  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External melt, Ice Harvester, Brine, Ice-Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes". | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-16-A Supply Air Temperature Reset Controls  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-17-A Condenser Water Temperature Reset Controls   | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCA-MCH-18-A Energy Management Control Systems  | <input type="checkbox"/> | <input type="checkbox"/> |

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Registration Date/Time:

Registration Provider: EnergySoft

**Mechanical Systems**

NRCC-MCH-E

|                                  |                  |                                     |
|----------------------------------|------------------|-------------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-MCH-E</b>                   |
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**O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

|                       |                                  |   |                          |                          |
|-----------------------|----------------------------------|---|--------------------------|--------------------------|
| <input type="radio"/> | <input checked="" type="radio"/> | NRCA-MCH-19-A Occupancy Sensor Controls   | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCA-MCH-20 Multi-Family Ventilation      | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCA-MCH-21 Multi-Family Envelope Leakage | <input type="checkbox"/> | <input type="checkbox"/> |

**P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

*Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCV/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/)*

| Yes                   | No                               | Form/Title   | Field Inspector          |                          |
|-----------------------|----------------------------------|--|--------------------------|--------------------------|
|                       |                                  |  | Pass                     | Fail                     |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCV-MCH-04-H Duct Leakage Test <i>NOTE: Must be completed by a HERS Rater</i>             | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCV-MCH-24 Enclosure Air Leakage Worksheet <i>NOTE: Must be completed by a HERS Rater</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCV-MCH-27 High-rise Residential <i>NOTE: Must be completed by a HERS Rater</i>           | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCV-MCH-32 Local Mechanical Exhaust <i>NOTE: Must be completed by a HERS Rater</i>        | <input type="checkbox"/> | <input type="checkbox"/> |

**Q. MANDATORY MEASURES DOCUMENTATION LOCATION**

*This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.*

| 01   | 02   |
|--|--|
| Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block <sup>1</sup> | Plan sheet or construction document location |
| Yes  | M-Sheets                                     |

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|                                  |                  |                                     |
|----------------------------------|------------------|-------------------------------------|
| <b>CERTIFICATE OF COMPLIANCE</b> |                  | <b>NRCC-MCH-E</b>                   |
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**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

|  |   |
|--|---|
| Documentation Author Name:<br>David Hensel, PE | Documentation Author Signature:                                   |
| Company:<br>Hensel Consulting Engineers, Inc.  | Signature Date:<br>2019-12-28                                     |
| Address:<br>5857 Owens Ave., 3rd Floor         | CEA/ HERS Certification Identification (if applicable):<br>M32901 |
| City/State/Zip:<br>Carlsbad CA 92008           | Phone:<br>(619) 665-3259  |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

|  |                                 |
|--|---------------------------------|
| Responsible Designer Name:<br>Jon Doe, AIA | Responsible Designer Signature: |
| Company:<br>Jon Doe Design                 | Date Signed:<br>2019-12-28      |
| Address:<br>123 Easy St.                   | License:<br>123456              |
| City/State/Zip:<br>San Diego CA 92000      | Phone:<br>858-123-4567          |

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft

## Domestic Water Heating System

NRCCPLBE

CALIFORNIA ENERGY COMMISSION

## CERTIFICATE OF COMPLIANCE

NRCCPLBE

This document is used to demonstrate compliance for nonresidential occupancies with requirements in [§110.1](#), [§110.3](#), [§120.3](#), and [§140.5](#), and with requirements in [§141.0](#) for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in [§110.1](#), [§110.3](#), [§120.3](#), [§150.0](#) and [§150.1\(c\)8](#), and with requirements [§150.2](#) for additions.

|                  |                  |                |               |
|------------------|------------------|----------------|---------------|
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## A. GENERAL INFORMATION

|                                     |   |                          |                       |                          |                  |
|-------------------------------------|---|--------------------------|-----------------------|--------------------------|------------------|
| 01                                  | Project Location (city)                                 | Sunnvale                 | 02                    | Climate Zone             | 4                |
| 03                                  | Occupancy Types Within Project (select all that apply): |                          |                       |                          |                  |
| <input checked="" type="checkbox"/> | Nonresidential  | <input type="checkbox"/> | High-Rise Residential | <input type="checkbox"/> | Hotel/Motel      |
| <input type="checkbox"/>            | State Building  | <input type="checkbox"/> | Healthcare Facility   | <input type="checkbox"/> | Other (Write In) |

## B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in [§140.5](#), [§150.1\(c\)8](#), and [§141.0\(a\)](#), or [§141.0\(b\)2N](#) for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

| 01   | 02  | 03  |  |  |
|--|---|---|--|--|
| My project consists of (check all that apply):   | System Type <sup>1,2</sup>                        | System Components                             |  |  |
| <input checked="" type="checkbox"/> New system (DHW system being installed for the first time in newly constructed building) | Individual System (serving nonresidential spaces) | <input checked="" type="checkbox"/> Equipment | <input checked="" type="checkbox"/> Distribution | <input checked="" type="checkbox"/> Controls |
| <input type="checkbox"/> System Alteration (equipment, distribution or controls)   |   | <input type="checkbox"/> Equipment            | <input type="checkbox"/> Distribution            | <input type="checkbox"/> Controls            |

<sup>1</sup>FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.

<sup>2</sup> Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.

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**Domestic Water Heating System**

NRCCPLBE

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|                                  |                  |                                   |
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**C. COMPLIANCE RESULTS**

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

| 01                           | 02                   | 03       | 04                        |
|------------------------------|----------------------|----------|---------------------------|
| Domestic Hot Water Equipment | Distribution Systems | Controls | <b>Compliance Results</b> |
| Table F                      | Table G              | Table H  |                           |
| Yes                          |                      | Yes      |                           |

**D. EXCEPTIONAL CONDITIONS**

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

SAMPLE

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## Domestic Water Heating System

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## F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in [§110.1](#) and [§110.3](#). For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in [§150.1\(c\)8](#) must also be demonstrated and with [§150.2](#) for addition and alteration scopes.

## Equipment Schedule: Individual Systems

| 01               | 02  | 03           | 04                               | 05                                | 06  |
|------------------|---|--------------|----------------------------------|-----------------------------------|---|
| Name or Item Tag | Equipment Type                                | Volume (gal) | Max GPM/ First Hour Rating (FHR) | Rated Uniform Energy Factor (UEF) | Minimum Required Uniform Energy Factor (UEF) <sup>1</sup> |
| WH-1             | Gas-Fired Instantaneous (50,000-200,000 BTUH) | <=2          | GPM >= 4.0                       | 0.93                              | 0.81  |

<sup>1</sup>FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: <https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx>

## Water Heating Equipment All Occupancies

|    | Yes                      | No                       | Not Applicable                      | Requirement   |
|----|--------------------------|--------------------------|-------------------------------------|---|
| 18 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per <a href="#">§110.3(c)3</a> |
| 19 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | New state buildings 60% of energy for service water heating from site solar energy or recovered energy per <a href="#">§110.3(c)5</a>   |
| 20 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Isolation valves for instantaneous water heater with input rating <6.8 kBTUH or 2 kW has been specified per <a href="#">§110.3(c)6</a>  |

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## G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in [§120.3](#) and [§140.5](#). For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements [§110.3\(c\)](#), [§120.3](#), [§150.0](#), [§150.1](#)

## Recirculation Loops in Central Systems Serving Dwelling Units or Nonresidential Spaces

|    | Yes | No | Not Applicable | Requirement |
|----|-----|----|----------------|-------------|
| 01 |     |    |                |             |
| 02 |     |    |                |             |
| 03 |     |    |                |             |
| 04 |     |    |                |             |
| 05 |     |    |                |             |
| 06 |     |    |                |             |
| 07 |     |    |                |             |

## Distribution in Individual Dwelling Units

|    | Yes | No | Not Applicable | Requirement  |
|----|-----|----|----------------|--|
| 08 | ●   | ●  | ●              | <p>The dwelling unit is designed to have fenestration products with a weighted average U-factor <math>\leq 0.24</math> plus one of the following options per <a href="#">§150.1(c)8Aii</a> : (New Construction Only)</p> <ul style="list-style-type: none"> <li>Compact hot water distribution system field verified by a HERS Rater per <a href="#">Reference Appendix RA4.4.16</a></li> <li>A drain water heat recovery system that is field verified by a HERS rater per <a href="#">Reference Appendix RA3.6.9</a></li> </ul>  |
|    |     |    |                | <input type="checkbox"/> Compact hot water distribution system field verified by a HERS Rater per <a href="#">Reference Appendix RA4.4.16</a>  |
|    |     |    |                | <input type="checkbox"/> A drain water heat recovery system that is field verified by a HERS rater per <a href="#">Reference Appendix RA3.6.9</a>  |
|    |     |    |                | <p>One of the following options is included in the design per <a href="#">§150.1(c)8Aiv</a> : (New Construction only)</p> <ul style="list-style-type: none"> <li>Compact hot water distribution system field verified by HERS rater per <a href="#">Reference Appendix RA4.4.6</a> and a drain water heat recovery system that is field verified by a HERS rater per <a href="#">Reference Appendix RA3.6.9</a></li> <li>A photovoltaic system capacity of 0.3kWdc (for climate zones 2-15) or 1.1kWcd (for climate zones 1 &amp; 16) larger than the requirement specified in <a href="#">§150.1(c)14</a>.</li> </ul> |
|    |     |    |                | <input type="checkbox"/> Compact hot water distribution system field verified by HERS rater per <a href="#">Reference Appendix RA4.4.6</a> and a drain water heat recovery system that is field verified by a HERS rater per <a href="#">Reference Appendix RA3.6.9</a>  |

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## Domestic Water Heating System

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## G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

|    |                          |  |
|----|--------------------------|--|
| 09 | <input type="checkbox"/> | A photovoltaic system capacity of 0.3kWdc (for climate zones 2-15) or 1.1kWdc (for climate zones 1 & 16) larger than the requirement specified in §150.1(c)14.   |
| 10 | <input type="checkbox"/> | One of the following options is included in the design per <a href="#">§150.1(c)8Av</a> : (New Construction only) <ul style="list-style-type: none"> <li>Compact hot water distribution system per <a href="#">Reference Appendix RA4.4.6</a> for projects in climates zones 1 and 16.</li> <li>A photovoltaic system capacity of 0.3kWdc (form climate zones 1 and 16) larger than the requirement specified in <a href="#">§150.1(c)14</a>.</li> </ul> |
|    | <input type="checkbox"/> | Compact hot water distribution system per Reference Appendix RA4.4.6 for projects in climates zones 1 and 16.  |
|    | <input type="checkbox"/> | A photovoltaic system capacity of 0.3kWdc (form climate zones 1 and 16) larger than the requirement specified in §150.1(c)14.  |

## Mandatory Pipe Insulation All Occupancies

|    |                                     |   |
|----|-------------------------------------|---|
| 11 |                                     | For systems serving dwelling units, pipe insulation for the following applications is specified to have a minimum wall thickness of 1 in or a minimum R-value of 7.7 per <a href="#">§150.0(j)2A</a> : <ul style="list-style-type: none"> <li>The first 5ft of cold water pipes form storage tank</li> <li>All hot water piping with nominal diameter of 3/4 in - 1 in</li> <li>All hot water piping with nominal diameter &lt; 3/4 in associated with DHW recirculation systems</li> <li>Piping with nominal diameter &lt; 3/4 from heating source to storage tank or between tanks</li> <li>Piping with nominal diameter &lt; 3/4 buried below grade</li> <li>All hot water pipes with nominal diameter &lt; 3/4 from heating source to kitchen fixtures</li> </ul> |
| 12 | <input checked="" type="checkbox"/> | For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with <a href="#">Table 120.3-A</a> (see below) per <a href="#">§120.3</a> : <ul style="list-style-type: none"> <li>Recirculating system piping, including supply and return piping of the water heater</li> <li>The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system</li> <li>Pipes that are externally heated</li> </ul>   |
| 13 | <input checked="" type="checkbox"/> | Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per <a href="#">§120.3(b)</a> and <a href="#">§150.0(j)3</a>   |

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## Domestic Water Heating System

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## H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in [§110.3](#) for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in [§150.1\(c\)8](#).

|    | Yes                                 | No                       | Not Applicable           | Requirement   |
|----|-------------------------------------|--------------------------|--------------------------|---|
| 01 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per <a href="#">§110.3(a)</a> .   |
| 02 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per <a href="#">§110.3(c)1</a> unless covered by California Plumbing Code 613.0.   |
| 03 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per <a href="#">§110.3(c)2</a> unless systems serves healthcare facility.   |
| 04 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | For recirculation systems serving multiple dwelling units, design includes automatic pump controls per <a href="#">§150.1(c)8Bii</a> , or <a href="#">§150.2</a> for additions or alterations.  |
| 05 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in <a href="#">Reference Appendix RA4.4.9</a> per <a href="#">§150.1(c)8</a> .   |
| 06 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of <a href="#">§110.12(a)</a> per <a href="#">§150.2(b)1Hiii</a> . |

## I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCI/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/)

| Yes                              | No                               | Form/Title   | Field Inspector          |                          |
|----------------------------------|----------------------------------|--|--------------------------|--------------------------|
|                                  |                                  |  | Pass                     | Fail                     |
| <input checked="" type="radio"/> | <input type="radio"/>            | NRCI-PLB-01-E - Must be submitted for all buildings  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/motel central hot water distribution systems to be recognized for compliance.              | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/>            | <input checked="" type="radio"/> | NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water distribution systems to be recognized for compliance. | <input type="checkbox"/> | <input type="checkbox"/> |

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**J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*There are no Certificates of Acceptance applicable to service water heating requirements.*

**K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

*Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCI/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/)*

| Yes                   | No                               | Form/Title  | Field Inspector          |                          |
|-----------------------|----------------------------------|---|--------------------------|--------------------------|
|                       |                                  |   | Pass                     | Fail                     |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCV-PLB-21-H High-rise Residential Central Hot Water Distribution HERS Verification                  | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCV-PLB-22-H High-rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification | <input type="checkbox"/> | <input type="checkbox"/> |

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**Domestic Water Heating System**

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**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

|  |   |
|--|---|
| Documentation Author Name:<br>David Hensel, PE | Documentation Author Signature:                                   |
| Company:<br>Hensel Consulting Engineers, Inc.  | Signature Date:<br>2019-12-28                                     |
| Address:<br>5857 Owens Ave., 3rd Floor         | CEA/ HERS Certification Identification (if applicable):<br>M32901 |
| City/State/Zip:<br>Carlsbad CA 92008           | Phone:<br>(619) 665-3259  |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

|  |                                 |
|--|---------------------------------|
| Responsible Designer Name:<br>Jon Doe, AIA | Responsible Designer Signature: |
| Company:<br>Jon Doe Design                 | Date Signed:<br>2019-12-28      |
| Address:<br>123 Easy St.                   | License:<br>123456              |
| City/State/Zip:<br>San Diego CA 92000      | Phone:<br>858-123-4567          |

Registration Number:

Registration Date/Time:

Registration Provider: EnergySoft