

automatically filled. A copy shall be made available to the Field Inspector during different stage inspection.

The Field Inspection Energy Checklist is designed to help Field Inspectors look at specific features that are critical to envelope compliance. These features should match the building plans as indicated on the Mechanical Field Inspection Energy Checklist or MECH-1C. The Field Inspector must verify after the installation of each measure (e.g. HVAC Systems). The Field Inspector in addition must collect a signed MECH-INST (Installation Certificate) from the installer.

In the case of the Field Inspection Energy Checklist does not match exactly the building plans or the MECH-INST form, the field inspector must verify the features are meeting the minimum efficiency or better and if so no further compliance is required from the Architect or responsible party. In the case the features do not meet the efficiencies (worse) the field inspector shall require recompliance with the actual installed features.

### ***HVAC SYSTEM Details***

The Field Inspector need check the Pass or Fail check boxes only after the measures have been verified. If the Special Feature is checked, the enforcement agency should pay special attention to the items specified in the checklist. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation. See MECH-2C Pages 1-2-3 of 3.

### ***Discrepancies***

If any of the Fail boxes are checked off, the field inspector shall indicate appropriate action of correction(s). See Field Inspection Energy Checklist on Page 2 of MECH-1C.

The use of each form is briefly described below and then complete instructions for each form are presented in the following subsections. The information and format of these forms may be included in the equipment schedule.

#### **MECH-1C: Certificate of Compliance**

This form is required for every job, and it is required to part on the plans.

#### **MECH-2C: Air, Water Side, and Service Hot Water & Pool System Requirements**

This form summarizes the major components of the heating and cooling systems, and service hot water and pool systems, and documents the location on the plans and in the specifications where the details about the requirements appear.

#### **MECH-3C: Mechanical Ventilation and Reheat**

This form documents the calculations used as the basis for the outdoor air ventilation rates. For VAV systems, it is also used to show compliance with the

reduced airflow rates necessary before reheating, re-cooling or mixing of conditioned airstreams.

#### **MECH-4C: Fan Power Consumption**

This form is used, following the prescriptive approach, to calculate total system fan power consumption for fan systems exceeding 25 brake horsepower. The “total system” includes supply, exhaust and return fans used for space conditioning.

#### 4.11.1 MECH-1C: Certificate of Compliance

**MECH-1C** is the primary mechanical form. The purpose of the form is to provide compliance information in a form useful to the enforcement agency’s field inspectors.

This form should be included on the plans, usually near the front of the mechanical drawings. A copy of these forms should also be submitted to the enforcement agency along with the rest of the compliance submittal at the time of building permit application. With enforcement agency approval, the applicant may use alternative formats of these forms (rather than the Energy Commission’s forms), provided the information is the same and in similar format.

#### ***Project Description***

PROJECT NAME is the title of the project, as shown on the plans and known to the enforcement agency.

DATE is the last revision date of the plans. If the plans are revised after this date, it may be necessary to re-submit the compliance documentation to reflect the altered design. Note that it is the enforcement agency’s discretion whether or not to require new compliance documentation.

PROJECT ADDRESS is the address of the project as shown on the plans and known to the enforcement agency.

CLIMATE ZONE is the California Climate zone in which the project is located. See Reference Joint Appendix JA2 for a listing of climate zones.

CONDITIONED FLOOR AREA has a specific meaning under the Standards. The number entered here should match the floor area entered on the other forms.

ADDITION OR ALTERATION FLOOR AREA is the floor area of any proposed addition or alteration to an existing structure. If the project scope is only for an addition, this number should match the floor area entered on the other forms.

#### ***General Information***

BUILDING TYPE is specified because there are special requirements for high-rise residential and hotel/motel guest room occupancies. All other occupancies that