



INFORMATION SHEET

NO. M-04

DATE : January 1, 2023

SUBJECT : Mechanical (and Electrical & Plumbing)

TITLE : **2022 Title-24 Energy/Green Forms for Non-Residential, High-Rise Residential, and Hotel/Motel Buildings**

PURPOSE : The purpose of this Information Sheet is to provide Title-24 energy inspection forms for non-residential, high-rise residential, and hotel/motel buildings based on the 2022 California Energy Code (CEC) and green building compliance per 2022 San Francisco Green Building Code (SFGBC) and Administrative Bulletin 093 (AB-093).

REFERENCE :

- 2022 California Energy Code
- 2022 San Francisco Green Building Code
- Administrative Bulletin 093 (AB-093)
- Information Sheet GB-01

DISCUSSION : The 2022 California Energy Code (CEC) will take effect on January 1, 2023. Additional and updated compliance, installation, and verification forms apply to the new Energy Code. Compliance with AB-093 Attachment E for new construction and major alterations.

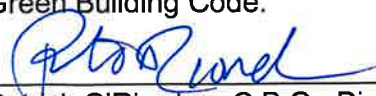
2022 California Energy Code Form Requirements for Non-residential

Non-Residential, High-Rise Residential, and Hotel/Motel Title-24 is comprised of Certificate of Compliance, Certificate of Installation, Certificate of Acceptance, and Certificate of Verification forms. Compliance documentation of the AB-093 is comprised of Attachment E. The Non-Residential Energy Inspection forms are included in the following attachments.

Effective Date of the Provisions of this Information Sheet

The provisions of this information sheet become effective for building permit applications submitted on or after January 1, 2023. The provisions of the AB-093 Attachment E form are required for new construction and major alteration permits that have a final certificate of occupancy after January 1, 2019.

Note: Refer to GB-01, Attachment H for projects required to exceed energy standards per San Francisco Green Building Code.


Patrick O'Riordan, C.B.O., Director
Department of Building Inspection

Date

1/10/23

Attachment Title-24 Energy Inspection Req. Non-Residential (Building)
Attachment Title-24 Energy Inspection Req. Non-Residential (Electrical)
Attachment Title-24 Energy Inspection Req. Non-Residential (Plumbing)

Energy Inspection Services
49 South Van Ness Ave – San Francisco CA 94103
Office (628) 652-3407 – www.sfgov.org/dbi (website)



NOTICE

TITLE-24 NON-RESIDENTIAL ENERGY/GREEN INSPECTION REQUIREMENTS (BUILDING)

Please note that Certificates of Installation and/or Acceptance and/or Verification are required for this project, as indicated on this form issued with this permit. Ensuring the accurate completion of this documentation is the direct responsibility of the engineer/architect of record. This documentation is required *in addition to* the called inspections performed by the Department of Building Inspection.

For questions regarding the details or extent of required documentation or testing, and if there are any field problems regarding documentation or testing, please call your District Building Inspector or 628-652-3400.

Before final building inspection is scheduled, documentation of energy compliance "Certificate of Installation, Acceptance, and Verification" and green building "Attachment E" must be completed and signed by the responsible person in charge. ***The permit will not be finalized without compliance with the energy inspection requirements.***

Energy Inspection Services Contact Information

1. Telephone: (628) 652-3407
2. Email: dbi.energyinspections@sfgov.org
3. In person: 4th floor at 49 South Van Ness Ave.

Note: We are moving towards a 'paperless' mode of operation. All special inspection submittals, including final letters, may be emailed (preferred).

Installation, Acceptance, and Verification certificates can be found on the California Energy Commission website at <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency>

Information Sheet M-06 provides submittal instructions for the Title-24 installation, verification, and acceptance energy certificates. M-06 may be found on the SFDBI website at <https://sf.gov/resource/2022/information-sheets-dbi>

TITLE-24 NON-RESIDENTIAL ENERGY/GREEN INSPECTION (BUILDING)

A COPY OF THIS DOCUMENT SHALL BE KEPT WITH THE APPROVED DRAWING SET

JOB ADDRESS _____ APPLICATION NO. _____ ADDENDUM NO. _____

ENGINEER/ARCHITECT NAME _____ PHONE NO. _____

Ensuring the completion of installation documentation as well as the required acceptance/verification testing is the direct responsibility of the undersigned. Installation documentation must be completed by the contractor performing the installation. Acceptance testing must be performed by an individual licensed to perform the specific testing needed. Verification testing must be completed by a certified HERS rater. Green Building Attachment E shall be completed as per SFGBC AB-093.

In accordance with the requirements of the 2022 California Energy Code, 2022 SFGBC and AB-093, the following documentation is required for the **building** elements in this project:

1. Installation		
<i>Envelope</i>	<i>Mechanical</i>	<i>Process</i>
<input type="checkbox"/> NRCA-ENV-E Envelope (IB71)	<input type="checkbox"/> NRCA-MCH-E Mechanical (IB72)	<input type="checkbox"/> NRCA-PRC-E Covered Processes (IB73)
2. Acceptance		
<i>Envelope</i>	<i>Mechanical</i>	
<input type="checkbox"/> NRCA-ENV-02-F Fenestration Acceptance (AB1)	<input type="checkbox"/> NRCA-MCH-02-A Outdoor Air (AB2)	
<input type="checkbox"/> NRCA-ENV-03-F Daylighting Design PAF Acceptance (AB25)	<input type="checkbox"/> NRCA-MCH-03-A Constant Volume Single Zone HVAC (AB3)	
<i>Process</i>	<input type="checkbox"/> NRCA-MCH-04-H HERS Air Distribution Duct Leakage Testing (AB4)	
<input type="checkbox"/> NRCA-PRC-01-F Compressed Air Systems (AB15)	<input type="checkbox"/> NRCA-MCH-05-A Air Economizer Controls (AB5)	
<input type="checkbox"/> NRCA-PRC-02-F Commercial Kitchen Exhaust (AB16)	<input type="checkbox"/> NRCA-MCH-06-A Demand Control Ventilation (DVC) (AB6)	
<input type="checkbox"/> NRCA-PRC-03-F Parking Garage Exhaust (AB17)	<input type="checkbox"/> NRCA-MCH-07-A Supply Fan Variable Flow Controls (VFC) (AB7)	
<input type="checkbox"/> NRCA-PRC-04-F Refrigerated Warehouse – Evaporator Fan Controls (AB18)	<input type="checkbox"/> NRCA-MCH-11-A Automatic Demand Shed Controls (AB8)	
<input type="checkbox"/> NRCA-PRC-05-F Refrigerated Warehouse – Evaporative Condenser Controls (AB19)	<input type="checkbox"/> NRCA-MCH-12-A Fault Detection & Diagnostics for DX Units (AB9)	
<input type="checkbox"/> NRCA-PRC-06-F Refrigerated Warehouse – Air-cooled Condenser Controls (AB20)	<input type="checkbox"/> NRCA-MCH-13-A Automatic Fault Detection & Diagnostics for Air Handling & Zone Terminal Units (AB10)	
<input type="checkbox"/> NRCA-PRC-07-F Refrigerated Warehouse – Variable Speed Compressor (AB21)	<input type="checkbox"/> NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Test (AB11)	
<input type="checkbox"/> NRCA-PRC-08-F Refrigerated Warehouse – Electric Resistance Underslab Heating System (AB22)	<input type="checkbox"/> NRCA-MCH-15-A Thermal Energy Storage (TES) Systems (AB12)	
<input type="checkbox"/> NRCA-PRC-12-F Elevator Lighting & Ventilation Controls (AB23)	<input type="checkbox"/> NRCA-MCH-16-A Supply Air Temperature Reset Controls (AB13)	
<input type="checkbox"/> NRCA-PRC-13-F Escalators & Moving Walkways Speed Controls (AB24)	<input type="checkbox"/> NRCA-MCH-18-A Energy Management Control System (AB14)	
<input type="checkbox"/> NRCA-PRC-14-F Lab Exhaust Ventilation System (AB27)	<input type="checkbox"/> NRCA-MCH-19-A Occupied Standby Acceptance (AB26)	
<input type="checkbox"/> NRCA-PRC-15-F Fume Hood Automatic Sash Closure System (AB28)	<input type="checkbox"/> NRCA-MCH-20-A Multifamily Ventilation (AB32)	
<input type="checkbox"/> NRCA-PRC-16-F Adiabatic Condensers and Condenser Fan Motor Variable Speed Control (AB29)	<input type="checkbox"/> NRCA-MCH-21-A Multifamily Leakage (AB33)	
	<input type="checkbox"/> NRCA-MCH-22-A System Duct Leakage (AB34)	
	<input type="checkbox"/> NRCA-MCH-23-A HRV ERV Verification (AB35)	
3. Verification		4. Green Building (For New Construction and Major Alterations)
<i>Mechanical</i>		<input type="checkbox"/> Green Building Attachment E (GBC1)
<input type="checkbox"/> NRCV-MCH-04-H HERS Duct Leakage Diagnostic Test (VB55)		
<input type="checkbox"/> NRCV-MCH-024-H HERS Enclosure Air Leakage Worksheet (VB61)		
<input type="checkbox"/> NRCV-MCH-027-H HERS IAQ (VB62)		
<input type="checkbox"/> NRCV-MCH-032-H HERS Local Mechanical Exhaust (VB63)		

Required information:

Prepared by: _____ Date: _____
Engineer/Architect of Record Signature

Fax: _____ Email: _____

Review by: _____ Phone: _____
DBI Engineer or Plan Checker

APPROVAL (Based on submitted reports)

DATE _____ DBI Building Inspector or Energy Inspection Services Staff

QUESTIONS ABOUT TITLE-24 ENERGY INSPECTION SHOULD BE DIRECTED TO:
 Energy Inspection Services (628) 652-3407; or, dbi.energyinspections@sfgov.org



NOTICE

TITLE-24 NON-RESIDENTIAL ENERGY INSPECTION REQUIREMENTS (ELECTRICAL)

Please note that Certificates of Installation and/or Acceptance and/or Verification are required for this project, as indicated on this form issued with this permit. Ensuring the accurate completion of this documentation is the direct responsibility of the engineer/architect of record. This documentation is required *in addition to* the called inspections performed by the Department of Building Inspection.

For questions regarding the details or extent of required documentation or testing, and if there are any field problems regarding documentation or testing, please call your District Building Inspector or 628-652-3400.

Before final building inspection is scheduled, documentation of energy compliance "Certificate of Installation, Acceptance, and Verification" and green building "Attachment E" must be completed and signed by the responsible person in charge. ***The permit will not be finalized without compliance with the energy inspection requirements.***

Energy Inspection Services Contact Information

1. Telephone: (628) 652-3407
2. Email: dbi.energyinspections@sfgov.org
3. In person: 4th floor at 49 South Van Ness Ave.

Note: We are moving towards a 'paperless' mode of operation. All special inspection submittals, including final letters, may be emailed (preferred).

Installation, Acceptance, and Verification certificates can be found on the California Energy Commission website at <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency>

Information Sheet M-06 provides submittal instructions for the Title-24 installation, verification, and acceptance energy certificates. M-06 may be found on the SFDBI website at <http://sfdbi.org/information-sheets>

TITLE-24 NON-RESIDENTIAL ENERGY INSPECTION (ELECTRICAL/LIGHTING)

A COPY OF THIS DOCUMENT SHALL BE KEPT WITH THE APPROVED DRAWING SET

JOB ADDRESS _____ APPLICATION NO. _____ ADDENDUM NO. _____

ENGINEER/ARCHITECT NAME _____ PHONE NO. _____

Ensuring the completion of installation documentation as well as the required acceptance/verification testing is the direct responsibility of the undersigned. Installation documentation must be completed by the contractor performing the installation. Verification testing must be completed by a certified HERS rater.

In accordance with the requirements of the 2022 California Energy Code, the following documentation is required for the **electrical** elements in this project:

1. Installation	2. Acceptance
<i>Indoor Lighting</i>	<i>Indoor Lighting</i>
<input type="checkbox"/> NRCI-LTI-E Indoor Lighting (IE21)	<input type="checkbox"/> NRCA-LTI-02-A Lighting Controls (AE1)
<i>Outdoor Lighting</i>	<input type="checkbox"/> NRCA-LTI-03-A Automatic Daylighting Controls (AE2)
<input type="checkbox"/> NRCI-LTO-E Outdoor Lighting (IE22)	<input type="checkbox"/> NRCA-LTI-04-A Demand Responsive Lighting Controls (AE3)
<i>Sign Lighting</i>	<input type="checkbox"/> NRCA-LTI-05-A Institutional Tuning PAF (AE5)
<input type="checkbox"/> NRCI-LTS-E Sign Lighting (IE23)	
<i>Electrical</i>	<i>Outdoor Lighting</i>
<input type="checkbox"/> NRCI-ELC-E Electrical (IE24)	<input type="checkbox"/> NRCA-LTO-02-A Outdoor Motion Sensor and Lighting Shut-Off Controls (AE4)
<i>Solar</i>	
<input type="checkbox"/> NRCI-SPA-E Solar Access Requirements (IE25)	

Required information:

Prepared by: _____ Date: _____
Engineer/Architect of Record Signature

Fax: _____ Email: _____

Review by: _____ Phone: _____
DBI Engineer or Plan Checker

APPROVAL (Based on submitted reports)

DATE _____ DBI Electrical Inspector or Energy Inspection Services Staff



NOTICE

TITLE-24 NON-RESIDENTIAL ENERGY INSPECTION REQUIREMENTS (PLUMBING)

Please note that Certificates of Installation and/or Acceptance and/or Verification are required for this project, as indicated on this form issued with this permit. Ensuring the accurate completion of this documentation is the direct responsibility of the engineer/architect of record. This documentation is required *in addition to* the called inspections performed by the Department of Building Inspection.

For questions regarding the details or extent of required documentation or testing, and if there are any field problems regarding documentation or testing, please call your District Building Inspector or 628-652-3400.

Before final building inspection is scheduled, documentation of energy compliance "Certificate of Installation, Acceptance, and Verification" and green building "Attachment E" must be completed and signed by the responsible person in charge. ***The permit will not be finalized without compliance with the energy inspection requirements.***

Energy Inspection Services Contact Information

1. Telephone: (628) 652-3407
2. Email: dbi.energyinspections@sfgov.org
3. In person: 4th floor at 49 South Van Ness Ave.

Note: We are moving towards a 'paperless' mode of operation. All special inspection submittals, including final letters, may be emailed (preferred).

Installation, Acceptance, and Verification certificates can be found on the California Energy Commission website at <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency>

Information Sheet M-06 provides submittal instructions for the Title-24 installation, verification, and acceptance energy certificates. M-06 may be found on the SFDBI website at <http://sfdbi.org/information-sheets>

TITLE-24 NON-RESIDENTIAL ENERGY INSPECTION (PLUMBING)

A COPY OF THIS DOCUMENT SHALL BE KEPT WITH THE APPROVED DRAWING SET

JOB ADDRESS _____ APPLICATION NO. _____ ADDENDUM NO. _____

ENGINEER/ARCHITECT NAME _____ PHONE NO. _____

Ensuring the completion of installation documentation as well as the required acceptance/verification testing is the direct responsibility of the undersigned. Installation documentation must be completed by the contractor performing the installation. Verification testing must be completed by a certified HERS rater.

In accordance with the requirements of the 2022 California Energy Code, the following documentation is required for the **plumbing** work in this project:

<p>1. Installation</p> <p><i>Plumbing</i></p> <p><input type="checkbox"/> NRCI-PLB-E Plumbing (IP16)</p> <p>2. Acceptance</p> <p><i>Mechanical</i></p> <p><input type="checkbox"/> NRCA-MCH-08-A Valve Leakage Test (AP1)</p> <p><input type="checkbox"/> NRCA-MCH-09-A Supply Water Temperature Reset Controls (AP2)</p> <p><input type="checkbox"/> NRCA-MCH-10-A Hydronic System Variable Flow Controls (AP3)</p> <p><input type="checkbox"/> NRCA-MCH-17-A Condenser Water Temperature Reset Controls (AP4)</p>	<p>3. Verification</p> <p><i>Plumbing</i></p> <p><input type="checkbox"/> NRCV-PLB-21-H High Rise Residential/Hotel/Motel Central Hot Water System Distribution (VP1)</p> <p><input type="checkbox"/> NRCV-PLB-22-H High Rise Residential/Hotel/Motel Single Dwelling Unit Hot Water System Distribution (VP4)</p>
--	---

Required information:

Prepared by: _____ Date: _____
Engineer/Architect of Record Signature

Fax: _____ Email: _____

Review by: _____ Phone: _____
DBI Engineer or Plan Checker

APPROVAL (Based on submitted reports)

DATE _____ DBI Plumbing Inspector or Energy Inspection Services Staff