2024 IECC Commercial Energy Code
Chapter Four: Prescriptive Path Plan Review, Inspections, and Approvals Tracking List

Rhode Island Energy™
Efficiency Programs

This tracking list is intended to guide the review, inspection, and approval of commercial new construction projects under the prescriptive path in Chapter Four of the 2024 IECC Commercial Energy Code. This list does **not** apply to:

- Projects using the performance method in the 2024 IECC
- Projects using the ASHRAE Standard 90.1 Energy Cost Budget performance method
- Additions, Alterations, Repairs, or Change of Occupancy or Use under Chapter 5, 2024 IECC
- Residential projects, except certain multi-family types covered in Chapter 4

Related considerations (direct quotes from the code are *italicized*):

a. *The code official shall examine or cause to be examined the CDs and shall ascertain whether the construction indicated and described is in accordance with the requirements of this code and other pertinent laws or ordinances.*
b. *The code official is authorized to utilize a registered design professional, or other approved entity not affiliated with the building design or construction, in conducting the review of the plans and specifications for compliance with the code.*

Plan Review

C105 Energy Information Required on Construction Documents

#	General Requirements	Party Responsible	Code #
G-1.	Selected 2024 IECC compliance path is stated.	Registered Design Professional (RDP)	C105.2 Requirements in C401.2.1, C401.2.2
G-2.	Ensure approval of AHJ if *approved agency* other than Registered Design Professional is performing lighting and receptacle control systems testing, which is required for all size projects to meet IECC requirements.	RDP and Owner	C408.3.1
G-3.	For projects over 10,000 square feet, commissioning requirements are stated and provider is designated; ensure approval of AHJ if *approved agency* other than Registered Design Professional.	RDP and Owner	C408.2
G-4.	*The construction documents shall specify that the* [As-built, O&M, and controls testing results] *documents … be provided to the building owner or owner's authorized agent within 90 days of the date of receipt of the certificate of occupancy.*	RDP	C408.3.2 C408.3.2.1 C408.3.2.2 C408.3.2.3

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#	Building Envelope Requirements	Party Responsible	Code #
BE-1.	Thermal envelope is represented on drawings (per thermal requirements in Tables C402.1.2, C402.1.3, or C402.1.4 plus C402.2 insulation; C402.3 wall reflectance; C402.4 roof reflectance).	RDP	C105.2.1 C402
BE-2.	Air barrier and its continuity around conditioned space is documented (Note: inspection and report required in C402.6.2.3; air leakage testing required in C402.6.2.	RDP	C105.2 C402.6.1.1
BE-3.	Thermal bridges are identified; calculations are provided unless simple prescriptive compliance is achieved.	RDP	C105.2 C402.7
BE-4.	Fenestration values are stated (see Table C402.5), area-weighted U-factor calculations (C402.5.3.4) are provided if applicable.	RDP	C105.2 C402.5

#	Mechanical Requirements	Party Responsible	Code #
M-1.	Mechanical system design criteria are stated. Note: Indoor conditions are maximum 72°F heating, minimum 75°F cooling per Section C302; outdoor design conditions are not specified in the IMC or the IECC, which lists all of RI as Climate Zone 5A per C301.1.	RDP	C105.2 C302
M-2.	Mechanical and service water heating systems and equipment types, sizes, and efficiencies; see Tables C403.3.2(1) through C403.3.2(16).	RDP	C105.2 C403 C404
M-3.	Economizer description.	RDP	C105.2 C403.5 all
M-4.	For equipment and system controls, location, data, and features are indicated.	RDP	C105.2 C403
M-5.	For fan motor horsepower and controls, location, data, and features are indicated.	RDP	C105.2 C403
M-6.	For duct sealing, duct and pipe insulation, locations, data, and features are indicated.	RDP	C105.2 C403

#	Lighting Requirements	Party Responsible	Code #
L-1.	Lighting fixture schedule with wattage is included.	RDP	C105.2 C405.1 C405.3.2
L-2.	Lighting control narrative (sequences) are provided.	RDP	C105.2 C405.2 all
L-3.	Location of daylight zones is shown on floor plans.	RDP	C105.2 C405

#	Renewables and Energy Storage Requirements	Party Responsible	Code #
E-1.	C405.15.1. Design includes the on-site renewable energy system with capacity of at least 0.75 Watts per sq. ft. OR C405.15.2. Submit the required contract(s) procuring off-site renewable energy for a minimum 10-year period, roughly 15 times the output of the onsite system required in C405.15.1. Show reserved locations on plans for inverters and raceways to building power system from a future on-site renewable energy system. OR C405.15.3. Purchase "Green RECs," Renewable Energy Certificates complying with Green-e standard, representing 5 times the amount of power required in C405.15.2. Show reserved locations on plans for inverters and raceways to building power system from a future on-site renewable energy system.	RDP	C105.2 C405.15
E-2.	Rated capacity of a planned (or installed if applicable) energy storage system is stated, and location and layout of designated area for the planned energy storage system is shown. Note: Since energy storage systems are only addressed in C406.3.6 as an option as part of the Renewable and Load Management credits, no minimum sizing requirements appear in the base code requirements.	RDP	C105.2 C406.3

C406 Additional Efficiency, Renewable and Load Management Requirements

#	Additional Credit Requirements	Party Responsible	Code #
A-1.	For buildings over 2,000 square feet of conditioned floor area, Permit Set documents state the number of required efficiency credits based on building occupancy group and climate zone, and the combination of additional energy efficiency measures selected to achieve the required number of credits.	RDP	C406.1 Table C406.1.1(1) C406.2
A-2.	For buildings over 5,000 square feet of conditioned floor area, Permit Set documents additionally state the number of required renewable and load management credits based on building occupancy group and climate zone, and the combination of additional renewable and load management measures selected to achieve the required number of credits.	RDP	C406.1 Table C406.1.2 C406.3
A-3.	Where excess credits from one of the above packages are applied to satisfy the requirements of the other package, Permit Set documents state the actual number of excess credits applied. Note: Table C406.1.1(2) limits credit carryover of excess renewable and load management credits earned to reduce the required energy efficiency credits; per C406.1.2 Exception there is no limit on the carryover of excess energy efficiency credits earned to reduce the required renewable and load management credits.	RDP	C406.1.2 Table C406.1.1(2)

For projects or portions of projects that are core and shell or subsequent build-out, see Section C406.1.1.2.

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Construction Phase

The IECC Section C107.1 states, "*It shall be the duty of the permit applicant to cause the work to remain visible and able to be accessed for inspection purposes. Neither the code official nor the jurisdiction shall be liable for expense entailed in the removal or replacement of any material, product, system or building component required to allow inspection to validate compliance with this code.*" Section C107.2 states, "*The code official, his or her designated agent or an approved agency, upon notification, shall make the inspections set forth in Sections C107.2.1 through C107.2.6.*"

C107 and C108 "Inspections" and "Approvals"

#	Description: Inspections Required	Party Responsible	Code #
I-1.	Footing and foundation insulation - insulation R-value, location, thickness, depth of burial and protection of insulation.	AHJ, their designated agent, or the approved agency, upon notification	C107.2.1 C303.2 C402
I-2.	Thermal envelope - R-values, location of insulation, thermal bridge mitigation, fenestration, U-factor, SHGC and VT, air leakage controls.	AHJ, agent, or approved agency	C107.2.2 C303.1 C402
I-3.	Plumbing – insulation (C404.4), circulating controls (C404.6), heat traps (C404.3).	AHJ, agent, or approved agency	C107.2.3 C404
I-4.	Mechanical systems – type and size of equipment per Tables C403.3.2(1) through C403.3.2(16), controls (C403.4), insulation (C403.13), air leakage (C403.13.2 & C403.13.3), fan efficiency (C403.8.3, C403.8.4, & C403.8.5), energy recovery (C403.7.4), and economizer (C403.5) per code and approved plans and specifications.	AHJ, agent, or approved agency	C107.2.4 C403.2 through C403.17
I-5.	Electrical system - lighting controls (C405.2), components, meters (C405.13), energy storage system area and pathways to service (C105.2 #17 & 18).	AHJ, agent, or approved agency	C107.2.5 C405
I-6.	"*Prior to passing final inspection, the registered design professional or approved agency shall provide evidence that the lighting and receptacle control systems have been tested to ensure that control hardware and software are calibrated, adjusted, programmed and in proper working condition in accordance with the construction documents and manufacturer's instructions.*" [All automatic lighting controls regardless of project size].	RDP	C107.2.6 C408.3.1
I-7.	On projects over 10,000 square feet (see C408.2.4), preliminary commissioning report is submitted to the code official prior to final mechanical and plumbing inspections.	Commissioning Provider and Owner	C107.2.6 C408.2 C408.2.4
I-8.	On projects over 10,000 square feet (see C408.2.4), submit a completed Commissioning Compliance Checklist signed by the Owner or their representative prior to final inspections.	Owner and Commissioning Provider	C107.2.6 C408.2.4
I-9.	Final inspection - installation and proper operation of all required controls, and documentation verifying building commissioning activities have been conducted per Section C408.	AHJ or agent	C107.2 C408

#	Description: Inspections Required	Party Responsible	Code #
I-10.	Confirmation of one of the following three (3) options: • The on-site renewable energy system with capacity of at least 0.75 Watts per sq. ft. is installed • Evidence of the required offsite renewable energy purchase contract(s) has been provided • Evidence of purchase of the required Renewable Energy Certificates has been provided	RDP or Commissioning Provider or Owner	C405.15
I-11.	The air tightness/blower door test report, including air leakage rates, "*…shall be submitted to the code official and the building owner*."	AHJ	C402.6.2.1
I-12.	After the prescribed tests and inspections indicate that the work complies in all respects with this code, a notice of approval shall be issued by the code official.	AHJ	C108.1

Requirements of 2024 IECC after Certificate of Occupancy:

a. *Energy code compliance documentation & supporting calculations are required to be delivered to the building owner within 90 days of Certificate of Occupancy.*

b. *As-built drawings and O&M manual are required to be delivered in one document to the building owner within 90 days of Certificate of Occupancy.*