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Course Summary: NYCECC TR8 INSPECTIONS AND REPORTING

1 RCNY §101-07 Approved Agencies

1 RCNY §5000-01 New York City Energy Conservation Code

TABLE I
PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE
RESIDENTIAL BUILDINGS

I. Introduction- learning objectives

- recommendations to assist third-party (TR8) inspectors in verifying compliance with the NYC Progress Inspection requirements for buildings complying with NYCECC Chapters R3, R4, 1 RCNY §5000 Table I, and with 1 RCNY §101-07 Approved Agencies rule
- help verify that built conditions comply with approved documents and with all provisions of the NYCECC as required by the TR8 certification of inspections
- Topics:
  a. responsibilities of the TR8 inspector,
  b. common inspection and reporting errors and omissions,
  c. identifying non-compliant construction documents,
  d. tips for resolving conflicts.

II. 1 RCNY 101-07 Approved Agencies rule: What is the role of the TR8 inspector of record?

- Supervision
- Duties
  - confirm that the documents are sufficient
  - verify that the drawings represent the built conditions
- certification with exception(s)
- conflict of interest

QUESTIONS AND DISCUSSION

III. 1 RCNY 101-07 Approved Agencies rule: what should be included in inspection reports

- verified values, method of verification
- non-compliant conditions and remediation
- photographic documentation
- signature and seal of the responsible design professional
- sampling
- Table I of 1 RCNY §5000

QUESTIONS AND DISCUSSION

IV. RESIDENTIAL BUILDINGS

- residential vs commercial code- verifying the number of stories
- Mixed occupancy

QUESTIONS AND DISCUSSION

V. IA1 PROTECTION OF EXPOSED FOUNDATION INSULATION

- protective coverings
- coordination with REScheck

VI. IA2 INSULATION PLACEMENT AND R-VALUES

- properly installed insulation
- verifying installed R-values
- compressed insulation
- steel vs wood framing
- prescriptive requirement issues
- REScheck issues
- slabs on grade
- continuous vs cavity insulation
- understanding area weighted U-factor calculations
- vented mechanical rooms

QUESTIONS AND DISCUSSION

VII. IA3 Fenestration and door U-factor and product ratings

- NFRC testing
- identifying valid fenestration labels
- unit/assembly vs center-or-glass values
- how to verify values when there is no valid label

VIII. IA4 FENESTRATION AIR LEAKAGE

- valid labeling

IX. IA5 FENESTRATION AREAS

- verifying dimensions
- sampling
- REScheck vs prescriptive compliance

QUESTIONS AND DISCUSSION

X. IA6 Air sealing and insulation – visual inspection (2016)
IA6 Air barrier visual inspection (2020)

- inspection locations
- inspection of joints, seams, and penetrations
- identifying defects
- observation of air sealing (blower door) testing

XI. IA7 AIR SEALING AND INSULATION-TESTING (2016)
IA7 AIR BARRIER-TESTING (2020)

- what the TR8 inspector should observe and verify
- testing plan
- building setup
- sampling
- test results
- reporting

QUESTIONS AND DISCUSSION

XII. IB1 FIREPLACES

- what to look for

XIII. IB2 SHUTOFF DAMPERS (2016)
IB2 VENTILATION AND AIR DISTRIBUTION SYSTEM

- dampers
- balanced ventilation
- ERV/HRV
- fans

XIV. IB3 HVAC AND SERVICE WATER HEATING EQUIPMENT

- verifying the equipment
- pools

XV. IB4 HVAC AND SERVICE WATER HEATING CONTROLS

- programmable thermostats
- boiler outdoor setback
- hot water circulation
- heat trace
- snow and ice melt

XVI. IB5 HVAC AND SERVICE WATER PIPING DESIGN AND INSULATION

- insulation
- drain water heat recovery
- maximum pipe length or water volume

XVII. IB6 DUCT LEAKAGE TESTING, INSULATION, AND DESIGN

- insulation
- sealing
- when testing is required

QUESTIONS AND DISCUSSION

XVIII. IC1 ELECTRICAL POWER AND LIGHTING SYSTEMS

- high-efficacy lamps

XIX. ID OTHER

- maintenance manuals

XX. ID2 PERMANENT CERTIFICATE

- what should be included

XXI. ID3 ELECTRIC VEHICLE SERVICE EQUIPMENT REQUIREMENTS

- outlet or capacity

XXII. CERTIFICATION

- Statement of Responsibility
- post-approval Amendments
- certification with exception(s)
- as-built conditions and revised energy analysis
- EN2

QUESTIONS AND DISCUSSION

FOR MORE INFORMATION