
APPENDIX 9
ENERGY-EFFICIENT GUIDELINES FOR PROJECTS WHERE HUD IS
MORTGAGEE-IN-POSSESSION OR OWNER

Comprehensive Repair Surveys and Plans should, to the extent possible, assure that:

1. Major repairs to the roof of the building include the addition of insulation to meet local code or a minimum value of R-30.

NOTE: Adequate ventilation must be provided in attic space to prevent damage due to moisture. Local codes and ASHRAE (American Society of Heating, Refrigeration and Air-Conditioning Engineers) recommendations should be consulted for details.

2. In areas of the country with more than 2000 heating degree-days (base 65) new and replacement windows be double-pane or have a maximum U-value of 0.65. In cooling climates windows have appropriate shading treatment, e.g., low-e coating, exterior shades, blinds, etc.
3. Gas- and oil-fired heating system equipment have steady-state efficiency testing to determine the need for tuning or replacement.
4. Heating system equipment has sufficient controls for night setback operation; hydronic systems have outdoor reset controls; single-pipe steam has balancing and venting adjustments.
5. All incandescent lighting in common areas, e.g., hallways, lobbies, stairwells, exit signs, have efficient fixtures and fluorescent lamps.
6. Exterior lighting has time clocks and photocell controls where appropriate as well as efficient lamps, e.g., high-pressure sodium, and efficient fixtures.
7. All showerheads have flow rates no more than 3.0 gallons per minute.
8. All exterior doors, including bulkhead doors that exit to the roof, be fully weatherstripped and have door-closing hardware.

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9. New and replacement major appliances, e.g., refrigerators, stoves, window air conditioners, meet DOE standards for energy efficiency.
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