

IOWA WEATHERIZATION PROGRAM NOTICE 10-01

TO: Weatherization Coordinators

FROM: Gwen Howe, Bureau of Weatherization

DATE: June 1, 2010

RE: Program Year 2010 Changes

Purpose

To issue changes in the Iowa Weatherization Standards General Appendix, the following are changes for Program Year 2010. All changes will be effective on houses evaluated beginning June 1, 2010.

General Appendix

Cost Limits

General Health & Safety Repair – The cost limit for general health and safety repairs is \$1,500 per home.

ECIP – When furnace repair/replacement is completed not in conjunction with weatherization the ECIP limit is \$3,000.

Lead Paint Protocol

The lead paint protocol will be reworked in the near future, but the new rules include:

- DOE requires all inspectors be Certified Lead Renovators
- DCAA recommends all evaluators be Certified Lead Renovators
- DCAA requires all weatherization contractors (including HVAC, electrical and plumbing) must be Certified Lead Renovators
- All new weatherization inspectors hired by agencies and new contractors must be registered for training within 60 days of hire.

Pollution Occurrence Insurance

Pollution Occurrence Insurance (POI) covers environmental pollutants such as lead paint dust. Although POI coverage is not required, it is recommended by the U.S. Department of Energy (DOE).

Work Standards

The following changes have been made to the Work Standards.

These changes will be included in the Work Standards manuals at the next printing.

Section 2024.03 Water Heater Installation

There has to be a grounded outlet that is close enough to the water heater that it can be plugged in directly and not with an extension cord.

Section 2030 – Combustion Appliance and Dryer Venting

The use of a clamp to secure the vent pipe to the dryer outlet is recommended. Metal tape may be used when using rigid pipe.

Section 2060 – Smoke Alarms

- Smoke alarms must be dual sensor detectors which contain both an ionization sensor and a photoelectric sensor and which are designed to detect and trigger an alarm in response to smoke detected through either sensing device, or a smoke detector which has at least two sensors and which is listed to Underwriters Laboratory Standard 217, Single and Multiple Station Smoke Alarm. The alarms may be powered by 9-volt battery and emit a signal when the battery is losing power. The use of dual sensor alarms does not change the requirements for separate CO alarms as described in this section because smoke alarms and CO alarms are not installed in the same location.
- Weatherization funds will be used to purchase and install up to two (2) alarms. Additional alarms may be installed using program funds if required by local codes for single family residences (specific code requirement must be noted in file).

Section 2090 Mechanical Ventilation

All new or unvented exhaust fans must be vented to the outside by installing rigid (galvanized, PVC or aluminum) or metal flexible vent duct to a proper termination on the outside of the house. Ensure the vent duct is properly sized (see Table 22), insulated with at least an **R-6** or greater material and, if possible, covered with the insulation blown into the attic, and pitched to the outside.

Intermittent Fans

- Fans installed for intermittent use must be rated for continuous use.
- All fans must provide stated flow (+/- 5%) at .25 w.g.
- Follow manufacturers' recommendations for insulating over a newly installed fan.
- Do not insulate over an existing fan, install damming material around it in the manner described in Section 5014.04.

Continuous Operated Fans

- Continuous operated fans should be controlled by a dehumidistat.
- **DO NOT INSTALL A DEHUMIDISTAT ON AN EXISTING FAN.**
- All fans must provide stated flow (+/- 5%) at .25 w.g.
- Follow manufacturers' recommendations for insulating over a newly installed fan.
- Do not insulate over an existing fan, install damming material around it in the manner described in Section 5014.04.
- Controls for fans installed in basements or crawl spaces should be accessible to the client

Section 5000 – Insulation

All references to R-11 insulation will now read R-11 or greater.

Section 5013.02 Scuttle Hole

- An alternative to using ¾" plywood or particle board and R-19 fiberglass is to use a specialty premade product that is six inch (6") Styrofoam with 1/2" drywall on the top and bottom sides.
- The back of the lid is to be insulated with either R-19 fiberglass wrapped in plastic and stapled or nailed to form an air tight enclosure for the fiberglass or 2" rigid foam board secured to the back.

Section 5013.03 Kneewall Doors

Kneewall door must be made of ¾" plywood, and insulated with either R-11 or greater fiberglass or **2" rigid foam board secured** on the back. The door must be trimmed (including paint or **stain**) to match the existing window and door trim.

Section 5014 Attic Insulation

Follow manufacturer's recommendations for insulating over a newly installed exhaust fan. Do not insulate over an existing fan, install damming material around it in the manner described in section 5014.04.

Section 5014.02 Kneewall Insulation

Allow an additional type of insulation - two-part closed-cell polyurethane foam

Method 4 – Two-Part Closed-Cell Polyurethane Foam

- Only use if local codes permit
- Manufacturer's guidelines must be followed for recommended use and application, temperature tolerances, shut down procedures and storage.
- Must be installed 2" thick
- Insulation must be neat in appearance and of a consistent depth.
- When cost effective according to the NEAT Audit, the two-part closed-cell polyurethane foam may be installed at the evaluator's discretion.
- If installed in a confined space, there should be a negative pressure in the area. Follow NIOSH Std as what is defined as a confined space.
- Recommend tenants, especially children, vacate the premises while being installed and for one hour after completion.
- Installers must wear an NIOSH certified respirator as well as eye and skin protection as specified in the product MSDS.
- Clean up any overspray or excess of the two-part foam
- Do not use in areas with knob and tube wiring.

Section 5014.04 Damming

- Install damming material around all existing exhaust fans.
- A brick chimney with a liner is no longer considered a heat source.

Section 5015 Gable Vents

- New gable vents must be installed with a frame appropriate for the type of siding on the house. Vents must be installed according to manufacturers' recommendations and be neat in appearance.
- Gable vents on wood sided houses must be installed with a brick mould frame.

Section 5031 Crawlspace

Allow an additional type of insulation – two-part closed-cell polyurethane foam

Section 5031.01 Vapor Retarder

- The polyethylene should extend 6” up the crawlspace wall and be secured to the wall.
- If there is evidence of water leakage or moisture coming through the foundation wall from the exterior, the 6-mil. polyethylene vapor retarder must be attached either to the sill plate or just below the sill plate and extend down to the ground in a manner that drains the moisture behind the insulation and covers the insulated section of the crawlspace wall.
- If installing rigid foam, wet spray cellulose or 2-part spray foam, the vapor retarder will not extend up the crawlspace wall.

Section 5031.03 Crawlspace Wall Insulation

There are four approved methods of crawlspace wall insulation.

Method 1 – R-11 Fiberglass

- Insulation is to be R-11 or greater fiberglass batts.
- Insulation may be installed either horizontally or vertically along the crawlspace walls. The edges of the insulation must be sealed and it must be attached to eliminate sagging and separation between batts.

Method 2 – Rigid Foam

- Insulation is to extend from the top of the foundation wall, down to the floor
- Fiberglass batt must extend from the wall out on to the vapor retarder at least 24” and not more than 48”.

Method 3 – Wet Spray

- Insulation is to extend from the top of the foundation wall, down to the floor
- Fiberglass batt must extend from the wall out on to the vapor retarder at least 24” and not more than 48”.

Method 4 – Two-Part Closed-Cell Polyurethane Foam

- Only use if local codes permit
- Manufacturer’s guidelines must be followed for recommended use and application, temperature tolerances, shut down procedures and storage.
- Vapor retarder must be put on the ground in crawlspaces when insulating the foundation walls.
- Insulation shall not be installed in areas prone to high moisture, flooding, or homes in low-lying areas.
- Must be installed 2” thick
- Insulation must be neat in appearance and of a consistent depth.
- When cost effective according to the NEAT Audit, the two-part closed-cell polyurethane foam may be installed at the evaluator’s discretion.
- The box area also needs to be insulated with 2” thick foam
- If installed in a confined space, there should be a negative pressure in the area. Follow NIOSH Std as what is defined as a confined space.
- Recommend tenants, especially children, vacate the premises while being installed and for one hour after completion.

- Installers must wear an NIOSH certified respirator as well as eye and skin protection as specified in the product MSDS.
- Clean up any overspray or excess of the two-part foam
- Fiberglass batt must extend from the wall out on to the vapor retarder at least 24" and not more than 48".

Section 5032 Bandjoist Insulation

There are two approved methods of crawlspace wall insulation.

Method 1 – R-11 Fiberglass – no change

Method 2 – Two-Part Closed-Cell Polyurethane Foam

- Only use if local codes permit
- Manufacturer's guidelines must be followed for recommended use and application, temperature tolerances, shut down procedures and storage.
- Must be installed 2" thick
- Insulation must be neat in appearance and of a consistent depth.
- When cost effective according to the NEAT Audit, the two-part closed-cell polyurethane foam may be installed at the evaluator's discretion.
- If installed in a confined space, there should be a negative pressure in the area. Follow NIOSH Std as what is defined as a confined space.
- Recommend tenants, especially children, vacate the premises while being installed and for one hour after completion.
- Installers must wear an NIOSH certified respirator as well as eye and skin protection as specified in the product MSDS.
- Clean up any overspray or excess of the two-part foam

Section 6011 Refrigeration Removal/Replacement

All refrigerators located in intentionally or unintentionally conditioned areas must be metered. Appliances in unconditioned areas may be metered and replaced if: (1) the new unit will be installed in an intentionally or unintentionally conditioned area, or (2) a 2-for-1 replacement will occur with the new unit being installed in an intentionally or unintentionally conditioned area. If a refrigerator cannot be metered because it can't be moved, the estimated usage for that make and model may be found in the look-up table in the NEAT Audit.

Section 7010 Doors

Grade Entrance

- Allow the use of ship-lap lumber as well as car siding or 1 x 4 tongue and groove lumber.

Lower Grade Door

- Allow the use of ship-lap lumber as well as car siding or 1 x 4 tongue and groove lumber.
- Also allow the use of steel or solid core doors.
- All wood must be painted or sealed.
- Lower grade doors are to be made of car siding, ship lap, 1 x 4 tongue and groove lumber or $\frac{3}{4}$ " treated plywood.
- Doors more than 6 square feet must be framed on the back side of the door using a 1x4 or 1x6 across the entire width of the top and bottom, then the two sides, then the center, forming what looks like two square frames, after which a 1x4 or 1x6 is placed in each of the two square frames on diagonal from the hinge location to the center of the

opposite edge. The frame-side of the door must close against the weatherstrip or door stop.

- All framing lumber is to be installed with glue and screws. The vertical joints of the car siding are not to be glued.

Section 8090 Mechanical Ventilation –

- Do not install a dehumidistat on an exhaust fan in mobile homes.
- A timer or wall switch may be used.