

Checklist for Energy Retrofits (CPS - 374)

Landowner: _____

County: _____

Farm No.: _____

Tract No.: _____

Completed By: _____

Title: _____ **Date** __/__/__

Bulb replacement

- Preconstruction meeting on site with landowner and contractor.
- NRCS representative present during installation.
- Job Sheet AL 374A-3** signed by landowner and contractor.
- Replace old sockets with nickel-plated brass screw shell keyless sockets fixtures for new bulbs.
(Look for the item #165XX, yellow or green box)
- New wiring certified by electrician

Attic Insulation

- Preconstruction meeting on site with landowner and contractor.
- NRCS representative present during installation.
- Job Sheet AL 374B-3** signed by landowner and contractor.
- The drop ceiling material and traps in good condition (holes, loosen clips).
- Thickness of blown fiberglass insulation is at least 6 inches or equivalent for R-19.
- Inspection with thermal imaging camera.

Wall Insulation

- Preconstruction meeting on site with landowner and contractor.
- NRCS representative present during installation.
- Assess the condition of existing curtain and determine if it could be used or if it needs to be replaced (new curtain or metal siding).
- Job Sheet AL 374B-3** signed by landowner and contractor.
- Give copy of **Drawing AL-ENG-374-01** to landowner and contractor. Review drawing and agree on method used.
- If existing curtain is in good condition and will be used:
 - Secure the outside of the curtain with 1x2's (top, center and bottom), or other approved method.
 - Clean the inside surfaces for foam application.
 - Spray foam the inside of the wall (1" to 1.5" thick)
 - Scrape board (2" Pressure Treated Wood) at the lower 22" (min.) of the wall with voids filled with gravel or concrete.
- If metal siding is used :
 - Installed metal siding with necessary girts
 - 3.5" fiberglass batt insulation

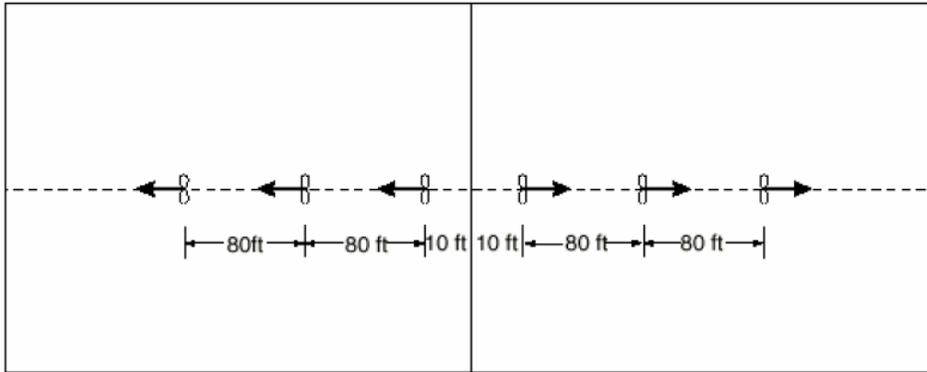
- 6 mil Vapor barrier
- OSB board
- Scrape board (2" Pressure Treated Wood) at the lower 22" (min.) of the wall with voids filled with gravel or concrete.

Radiant Heaters

- Preconstruction meeting on site with landowner and contractor.
- NRCS representative present during installation.
- Job Sheet AL 374C-3** signed by landowner and contractor.
- Check gas lines are LPG approved.
- New gas plumbing certified by licensed plumber.
- New wiring certified by electrician.

Stir Fans

- Preconstruction meeting on site with landowner and contractor.
- NRCS representative present during installation.
- Job Sheet AL 374D-3** signed by landowner and contractor.
- Proper placement, at least 3 fans in the brood end and 3 in the off-end of the house. Fig #1
- Total fan cfm should approximate 10% of house volume.
- Paddle fans installed to move air toward the ceiling and not down toward the birds.
- Recirculating fans positioned to move air toward the end wall in each chamber.
- The Brood Chamber stir fans should be on one circuit and the off-end stir fans on another circuit. They should be wired so as not to be "on" during ventilation of the house and should be wired with a thermostatic control.
- New wiring certified by electrician.



Growers with low ceiling houses wishing to utilize 24-inch round panel fans might mount them as shown above. These fans will set up a race track pattern of airflow in the house. When in-between flocks and during catch-out these fans can be winched totally out of the way.

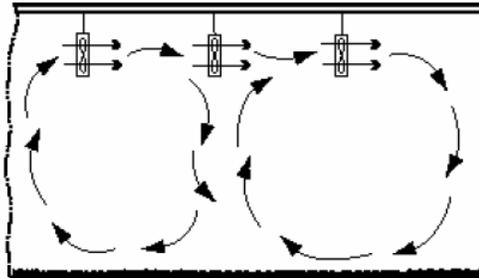


Fig 1: Recommended configuration for stir fans.

Source:

<http://www.aces.edu/dept/poultryventilation/documents/StirFanReport.pdf>