

## **Odor Control Plan for**

**Insert Owner Name**

**Insert Farm Name**

**Insert County Name**

**Month XX, 2010**

This plan is only for dry litter poultry growers who are required by law under §382.068(d) Health & Safety Code or §26.302 (b-3) Water Code to implement an odor control plan. The intent of this plan is to reduce or eliminate nuisance odor sources on the poultry farm and hopefully prevent odor related complaints against the farm.

### **A. Litter Management**

1. Maintain an average litter depth of at least 3 inches
2. Target litter moisture content during the flock should be between 20-30%; not powdery dry, but not so moist it will clump.
3. Management procedures include:
  - a. Maintain proper drinker height.
  - b. Maintain proper drinker water pressure.
  - c. Repair all drinker system leaks upon discovery.
  - d. Repair all evaporative cooling system leaks that will directly deposit water onto litter upon discovery.
  - e. Allow for proper litter drying between flocks. Caked litter must be removed, unless incorporated into in-house windrows for pasteurization of litter. In solid sidewall housing, a minimum amount of ventilation should be used between flocks to remove excessive litter moisture. Target litter moisture content prior to flock placement should be about 20-25% or slightly dryer than during flock grow-out.

### **B. Mortality Management**

1. Mortalities must be collected a minimum of once per day or more frequently as needed to prevent or reduce odors.
2. Upon collection, all mortalities must be immediately placed into an incinerator or freezer, incorporated into a compost pile, or placed into a sealed container to await final disposal. Carcasses must be placed in freezer or other final disposal method the same day as collection. Do not leave mortality carcasses in the open air to await final disposal.
3. Incinerator operations shall be conducted between locally established sunrise and sunset, unless an exception is requested and approved by the controlling regulatory authority. Carcasses in the incinerator that are burning must be completely incinerated prior to nightfall to prevent smoke emissions after dark.

4. Operate and maintain incinerators in accordance with all applicable air regulations and according to the manufacturer's specifications to achieve maximum destruction efficiency. These include but are not limited to: load capacity, burn rate, operating temperature and/or burner operation.
5. Clean ash from incinerators at least weekly or more frequently as needed to maintain efficient incinerator operations.
6. If composting mortality carcasses, all carcass parts must be covered with a minimum of 2 inches of litter, bulking agent material (sawdust, wood chips or shavings, rice hulls), or mature compost the same day as collection. Unroofed compost piles, if used on rare occasions, will to the extent possible be placed out of sight from neighboring residences or public roads and at least 150 feet from the nearest property line. Follow moisture and temperature guidance included in WQMP.
7. Clean all equipment and temporary storage containers used to handle mortalities at least once per week or more frequently as needed to prevent or reduce odors.

### **C. Catch-out/Clean-out Procedures**

1. Keep all doors on poultry houses closed at all times unless equipment access to a particular house is necessary (birds are being loaded/unloaded or litter clean-out/maintenance activities are occurring).
2. Clean up any litter spilled from equipment or dropped from tires during loading outside the houses within 24 hours after completing bird catch-out or litter clean-out.
3. Clean-up any spilled feed inside or outside houses within 24 hours of discovery.

### **D. Litter Storage**

1. The storage of litter on-site is strongly discouraged.
2. If litter must be stored on-site, rainwater shall not be allowed to reach stockpiles. Litter must be stored under a roof (litter shed) or completely covered with a tarp or other impermeable material.

### **E. Land Application**

1. If applying litter to land associated with the poultry houses (on-farm application), the following considerations are to be taken into account:
  - a. Do not apply litter within 100 feet of public roads.
  - b. Do not apply litter within 500 feet of any residence, school, park, place of worship or other facility used by the public.
  - c. Application of litter during morning hours is preferable. Do not apply litter after 5:00 pm.
  - d. Do not apply litter on weekends or federal holidays that occur Monday-Friday if any residence, school, park, place of worship or other facility used by the public is located within 1,500 feet of the nearest edge of the application area.
  - e. Do not apply litter while the wind direction is from any point of application toward a residence, school, park, place of worship or other facility used by the public within 1,500 feet of the nearest edge of the application area.
  - f. Do not apply litter during any rainfall event or if rain is imminent.
  - g. Cover all loads of litter if being transported on public roads.
  - h. Only apply litter at the agronomic rate specified by the Water Quality Management Plan.

## **F. Facility Management**

1. Dust.
  - a. Control vehicle speed to under 15 mph around facility.
  - b. Facility exhaust/ventilation fans should be properly maintained and kept cleaned and free of debris for proper operation.

## **G. Site specific guidelines following a Notice of Violation for nuisance odors could be required to address odor sources identified in the NOV by (but not limited to) the following:**

1. Additional management procedures
  - a. Evaporative cooling system management
  - b. Litter amendment application\*
  - c. Frequency of whole house litter clean-out\*
2. Additional setbacks and land application restrictions
3. Odor mitigation techniques
  - a. Shelterbelts (Vegetative Environmental Buffers)
  - b. Biocurtains or other dust/odor filtration systems\*
  - c. Exhaust air diverters\*
  - d. Other odor control devices\*
4. House density limitations\*
5. Other control actions and management measures as necessary\*

*\* Items with an asterisk are not under the total control of the farm owner and may require integrator consent and cooperation, therefore would require TCEQ to discuss these items with the integrator company prior to requiring them.*

## **H. Attachments**

1. Maps
  - a. Vicinity Map (ie: county road map showing location of farm)
  - b. Site Map. Show location of poultry houses, permanent odor sources, and distances and direction to any occupied residence or business structure, school (including associated recreational areas), structure containing a place of worship, or public park within half-mile radius of the permanent odor sources at the facility. The map shall include the north arrow, scale of map, buffer distances, and date that the map was generated and the date that the distances were verified.