

## Cleaning and Disinfecting Turkey Breeder Farms

Turkey breeder farms must be thoroughly cleaned and disinfected before a new flock of turkeys can be placed. This means that the buildings and contents must be clean with no remaining organic matter whatsoever as well as lowering or elimination of virus and bacteria.

There must be strict control of employees, visitors and equipment movements so they do not re-infect cleaned areas of the farm. It may also require multiple rounds of disinfection.

### Cleaning Procedures

- Employees and visitors must continue to follow all bio-security procedures during clean out, e.g. showering, boot washing, traffic control and keeping buildings and gates closed.
- If equipment is brought in to aid in the cleanout process, it should be thoroughly cleaned and disinfected prior to entry.
- Perform a risk assessment and ensure all employees wear proper personal protective equipment as required. Typically this will include a rain suit, rubber gloves and rubber boots. Eye and breathing protection may also be required for some procedures. Each aspect of the cleaning procedure should have a well written Job Safety Training Analysis (JSTA) to help assure safety protocols are being met.
- Pre-wash building using a detergent that is specifically formulated to be used in high organic environments and



applied with a Hydro Seeder before piling or removing litter.

- When removing litter use plastic to cover grounds at the loading area to keep free of spilled litter. Do not overload trucks and cover all loads prior to leaving the farm. If possible use a one way flow of material, used litter out one end of the building and clean shaving in from the other. A well planned route that avoids passing by other poultry farms is essential.
- Sweep and scrape floors and equipment to insure they are free of particles of litter, feathers and manure.
- Break down equipment such as drinkers, disassemble drinker valves, remove feed augers, roll up and stack nest pads and place fans onto floor.
- Before removing feed augers tie a nylon cord to one end that is long enough to reach the other end. This will be used later for feed line disinfection.
- Wash turkey barn and all contents with hot water and detergent. Start with ceiling, then walls and curtain, last floor and equipment. Always start at the highest floor level so you have a place to put cleaned equipment.
- Wash feed bins inside and outside with hot water and detergent.
- Clean farm complex grounds; remove feathers, litter and debris.
- The use of a Bio-Burner in the areas outside of the house where litter, feathers and/or other organic material may be is recommended. (Roads, Loading areas, etc.)
- Wash and clean egg complex, shower areas, break room, office and storage complex. Move and clean behind appliances. Trash all paper goods.
- Wash all farm clothing and boots.

- Shock treat all water lines with CID 2000, Hydrogen Peroxide or other approved waterline treatment products for 24 hours. Flush all lines thoroughly before placing birds.
- If insect control is needed it should be applied after disinfection.
- Clean and re-bait all rodent bait stations.
- Depending on the time of year herbicides may have to be applied to control vegetation around the house, feed bins, perimeter fencing, egg house and storage buildings.
- Thoroughly clean and disinfect the incinerator and the area around.
- Clean and disinfect all hand tools. (Shovels, rakes, hammers, screwdrivers, drills etc.)
- Open all electrical control panels after power has been turned off. Use an air compressor to blow dust out and lightly spray with an aerosol disinfectant such as Lysol. CAUTION: Always allow ample time to dry before repowering.

**Disinfection**

- Perform a risk assessment and ensure all employees wear personal protective equipment as required.
- Disinfect turkey building and equipment using Hydro Seeder (see below) with Phenol



- at the recommended level. Using a large tub dip nest mats in Phenol solution. Stack nest mats in well disinfected area, re-disinfect work area. Let dry.
- Tie a large sponge that has been saturated with the Phenolic disinfect to the nylon cord that was previously tied to feed auger to disinfect the inside of feed lines.
- Disinfect outside of the turkey houses, feed bin areas, grounds and farm roadways with the same mix rate as building disinfection using Hydro Seeder to apply.
- Disinfect shower complex and or egg complex with Glutaraldehyde-Quat at the recommended level. Use hose end sprayer, mops and appropriate tools to apply. Let dry.
- Take environmental samples. Each swab should be labeled as to where it was taken. A pre-determined list of sites in all houses should be made for consistency and complete coverage.
  - o Not clean result – Repeat disinfection procedures.
  - o Clean result - Proceed to final steps.

**Final Steps After Farm Tests Clean**

- Perform a risk assessment and ensure all employees wear personal protective equipment as required.
- Lime turkey building floor and stem walls. Coat floor and stem walls evenly with a thin coat. Apply more over cracks so lime can fill them in.
- A ten foot perimeter outside of the house should be treated on the stem walls of the house and ground.
  - o Lime slurry: add 250 pounds of hydrated lime per 100 gallons of water, apply with Hydro Seeder.

This is the Turbo Turf Hydro Seeder used by Aviagen Turkeys, Inc. It has a 750 gallon tank and mixes contents in two ways - two water jet points and paddles. This machine was setup to Aviagen Turkeys’ specifications. The Turbo Turf contact number is 800-822-3437 and the website is [www.turboturf.com](http://www.turboturf.com).



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