

Appendix 2 – Decontamination procedure after an outbreak

Step	Description	Responsibility	Product	Use Rate	Verification
1	<u>Before the last bird is out</u> <ul style="list-style-type: none"> Empty feed lines 				Visual inspection/ sign off
2	<u>Insect control</u> <ul style="list-style-type: none"> Spray insecticide on floor/ wall interface Concentrate on cracks and crevices For periods of heavy infestation, also spray the entire wall surface up to the ceiling Do not spray directly onto litter 				Visual inspection/ sign off
3	<u>Litter removal</u> <ul style="list-style-type: none"> Remove gross organic matter from the floor Hand sweep corners of the shed and on uneven surfaces Clean up spilt litter during removal, including from the loading area Remove gross soil from fan boxes, ledges, egg belt Scrape built-up manure from nest boxes, perches, pop-out holes and dwarf wall On free-range farms, remove manure outside the hatch opening/pop-out holes Remove, wash and sanitise ramps from the pop-out holes Dispose all litter and organic matter in a biosecure manner (e.g. off farm or composted at least 2 km from sheds) 				Visual inspection/ sign off
4	<u>Rodent control</u> <ul style="list-style-type: none"> Maintain rodent control during cleanout and disinfection Wash all bait stations before disinfection Apply detergent via a foam onto the bait stations and allow a minimum of 15 minutes of contact time Rinse the rodent bait stations Allow the bait stations to dry Sanitise the rodent baiting stations using a sanitiser Replace bait stations and replenish with bait after external shed washing 				Visual inspection/ sign off

5	<p><u>Vegetation control</u></p> <ul style="list-style-type: none"> • Maintain vegetation control during cleanout and disinfection • Take weeds offsite or kill using weed killer appropriate to the shed location • Reduce grass to less than approximately 10cm • If hay bales are present, remove and replace with fresh bales • Dispose all removed vegetation and hay in a biosecure manner as for litter • Wash and sanitise the external concreted perimeter of the shed if present • Remove feathers from the range area • Remove any feathers from metal fences using a flamethrower • Wash and sanitise fences and gates • Apply quicklime to the range area at a rate of 0.25 kg per m² • Add 0.5-1 L of water per m² to the ground covered with quick lime 				Visual inspection/ sign off
6	<p><u>Composting sites/BiobiNs</u></p> <ul style="list-style-type: none"> • Ensure composting sites are free from gross soils and are at least 2 km from sheds • Ensure BiobiN external surfaces are free from gross soils. Ensure arrangements have been made to have the BiobiN replaced before terminal disinfection • Ensure the BiobiN company is informed of any disease issue • Wash and sanitise BiobiN aeration equipment 				
7	<p><u>Feeders, pans and hoppers</u></p> <ul style="list-style-type: none"> • Before the shed is washed, manually remove feed from the feeder and hoppers • Use a handheld blower to remove feed dust from feeders 				Visual inspection/ sign off
8	<p><u>Cool cell pad cleaning</u></p> <ul style="list-style-type: none"> • If required, remove any debris, cobwebs, and/or feathers from the surface of the pads using a soft broom • Remove gross soils from cool pad sump, trough and pipes, including the line above the pads • Pump out in-ground sumps after gross soils have been removed. This may require an external contractor • Fill troughs/sumps with a sufficient volume of potable water to recirculate through the cool pads • Add an acid-based cleaner and circulate it through the cool cell pad system • Verify the pH at the furthest cool pad using a pH strip to ensure pH is at the chemical manufacturer's recommended level • Allow a minimum of 30 minutes of contact time • Drain • Flush the cool cell system with potable water to remove the acid cleaner and remaining soils 				Visual inspection/ sign off

9	<p><u>Drinker line cleaning</u></p> <ul style="list-style-type: none"> • Fill header tanks with a sufficient volume of water to fill water lines • Set the dosing unit to 1% and place the dosing unit tube into the acid-based cleaner container • Fill drinker lines with the acid-based cleaner • Verify the pH at the end of each drinker line using pH strips to achieve the level recommended by the chemical manufacturer • Allow 12 hours of contact time – leave the cleaner in the lines overnight • Flush with potable water to remove the cleaner and remaining soils from the line • Verify with a pH strip at the end of the drinker line. The pH should be 7-8 (the pH of the normal incoming potable water supply) 				Visual inspection/ sign off
10	<p><u>Shed preparation before detergent application</u></p> <ul style="list-style-type: none"> • Open the mini vents • Remove any gross soil from the fan boxes and dog boxes • Remove the slats and nest pads if applicable • Place equipment in the designated area for washing • Secure the brood curtains if present • Raise the side curtains • Ensure all chemicals for cleaning and sanitation are available in a designated location on farm, e.g. a dedicated chemical storage shed • Hand sanitise all sensitive fixtures within the shed and securely sealed in plastic 				Visual inspection/ sign off
11a	<p><u>Detergent application</u></p> <ul style="list-style-type: none"> • Start foaming from the outside fan boxes, working into the shed • Foam the outside shed walls and mini vents • Foam the gutters if applicable • High-pressure rinse all surfaces 				Visual inspection/ sign off
11b	<p><u>Detergent application</u></p> <ul style="list-style-type: none"> • Foam the ceiling. Start from the sides of the ceiling and move towards the middle of the shed • Foam the cable, chimney and electric fixtures • High-pressure rinse from the ceiling. High-pressure rinsing should start with the centre of the shed, moving towards the wall • Rinse the cables 				Visual inspection/ sign off
11c	<p><u>Detergent application</u></p> <ul style="list-style-type: none"> • Lower the drinkers to chest height and foam the drinker lines • Foam the circulating and extraction fans • High-pressure rinse the fans after 15 minutes • High-pressure rinse the drinker lines • Use a short lance with a 15-degree tip to rinse the drinker lines. Hold the lance steady and walk slowly to rinse the drinker lines • Avoid swaying the lance side to side while rinsing the drinker lines • Raise the drinker lines once foaming and rinsing are completed 				Visual inspection/ sign off

11d	<u>Detergent application</u> <ul style="list-style-type: none"> • Lower the feeders to knee height and foam the insides • Foam the bottom of feeders • Lower the perch rails and foam the perches • Rinse the perch rails • Raise the perches • Rinse the feeders with a medium-length lance • Hold the lance steady and avoid swaying movements • Raise the feeders to chest height 				Visual inspection/ sign off
11e	<u>Detergent application</u> <ul style="list-style-type: none"> • Foam the nest boxes, egg belts and other structures that cannot be removed from the shed • Rinse the nest boxes, egg belts and other structures that were foamed • Foam the dwarf wall 				Visual inspection/ sign off
11f	<u>Detergent application</u> <ul style="list-style-type: none"> • Foam the wall from the bottom and work your way up • Foam the mini vents • High-pressure rinse the wall from top to bottom using a long lance with a 15-degree tip • Swivel the lance tip to allow the fan jet to spray vertically on the wall • Swivel the 15-degree tip upwards when rinsing the bottom edge of the wall • For the mini vents, the lance must be swivelled to allow the fan jet to spray horizontally onto the mini vent 				Visual inspection/ sign off
12	<u>Detergent application for silo</u> <ul style="list-style-type: none"> • Foam all internal and external silo surfaces from bottom to top • High-pressure rinse the silo from top to bottom 				Visual inspection/ sign off
13	<u>Sensitive equipment in the control room</u> <ul style="list-style-type: none"> • Spray ready-to-use sanitiser spray on sensitive equipment. • Avoid spraying open or live switchgear • Wipe with a clean paper towel or clean cloth 				Visual inspection/ sign off
14	<u>Control room</u> <ul style="list-style-type: none"> • Apply foam cleaner to the control room, feed room floor, wall and bottom of doors after electric equipment has been made safe • Scrub the floor and wall with a soft brush • Low-pressure rinse the control room and feed room 				Visual inspection/ sign off
15	<u>Footbaths</u> <ul style="list-style-type: none"> • Foam and scrub the insides and outsides of the footbaths • Rinse the footbaths thoroughly with clean water • Add water to the required depth • Add sanitiser solution • Place footbaths at all shed entry points 				Visual inspection/ sign off

16	<u>Mort buckets and rubbish bins</u> <ul style="list-style-type: none"> • Thoroughly rinse to remove gross soils • Manually clean using the foam cleaner • Rinse thoroughly to remove detergent and soil residue • Disinfect using a sanitiser 				Visual inspection/ sign off
17	<u>Internal vehicle and machinery surfaces</u> <ul style="list-style-type: none"> • Vacuum vehicle cabin where required • Remove rubber mats and clean as per the procedure for external surfaces • Apply ready-to use cleaner/sanitiser to all surfaces, including doors, steering wheels and dashboards • Wipe with a clean paper towel or a clean cloth rinsed frequently in potable water 				Visual inspection/ sign off
18	<u>External vehicle and machinery surfaces</u> <ul style="list-style-type: none"> • Applicable to all vehicles and machinery • Rinse all surfaces with water to remove gross soils • Spray all external surfaces with sanitiser; ensure all external surfaces are thoroughly wetted • Ensure you pay attention to detail for the undersides of vehicles, wheels and wheel arches 				Visual inspection/ sign off
19	<u>Amenities – toilets, showers, change areas and rubber boots</u> <ul style="list-style-type: none"> • Clean boots using foam detergent and rinse to remove detergent and soil • Disinfect boots by dipping them in the sanitiser solution • Apply foam cleaner to toilet bowls/urinals, showers, sinks and floors • Allow a minimum of two minutes of contact time Agitate where required with a toilet brush (toilet only), soft scourer or broom (showers, sinks and floors) • Rinse with fresh water to remove the detergent and remaining soil • For sensitive surfaces such as switchgear, lockers, door handles or toilet seats, apply ready-to-use sanitiser spray 				Visual inspection/ sign off
20	<u>Clothing/uniforms</u> <ul style="list-style-type: none"> • If required, remove gross soils from clothing by rinsing with ambient potable water • Squeeze excess water • Soak all clothing in sanitiser solution for at least 30 minutes • Follow normal wash and dry procedures 				Visual inspection/ sign off
21	<u>Insecticide control</u> <ul style="list-style-type: none"> • Spray floors and floor/wall interfaces, concentrating on cracks and crevices • For heavy infestation periods, spray the entire wall surface up to the ceiling • Dry surfaces before applying disinfectant • External shed application: Apply insecticide 1 m out from the wall and 1 m up the wall 				Visual inspection/ sign off

22	<u>Sanitisation</u> <ul style="list-style-type: none">• Sanitisation must commence only after all the shed, control room and amenities have been washed and rinsed• If an insecticide was used after cleaning the shed, wait 2-3 days before sanitisation• Close all pop holes• Ensure a manager checks the volume of sanitiser and dilution rate• Sanitise all internal structures, concentrating on bird contact areas such as the feeders, drinkers, walls, floor and ventilation system• Sanitise the external concrete area, external walls and gutters• Close the sheds until litter placement				Visual inspection/ sign off
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