



Farm assurance standards require you to implement an effective cleansing policy. Effective C&D should also be a key part of your Salmonella control plan, use these checklists to help identify what needs to happen for C&D to be effective

BEFORE PRESSURE WASHING AND DISINFECTING BEGINS:		Is what you do now effective?	What changes can you make to improve cleaning and disinfection?
Remove pigs following a strict all-in/all-out (AIAO) policy	AIAO helps prevent older pigs from infecting younger, incoming pigs. AIAO is the best way to provide a disease break and it is essential for effective C&D.	Plan the best AIAO strategy your facilities allow. Remove all pigs from the site, building, airspace, room or pen. Avoid keeping back stragglers.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve
Remove all bedding, muck and slurry	This physically removes the bulk of potentially infected material.	Resist the temptation to reuse any 'clean' bedding - it is a reservoir of infection. Material below slats should also be removed. <i>(If not possible, then ensure levels remain at least 30cm below floor surfaces and that material cannot leak or overflow.)</i>	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve
Take out all moveable equipment for separate C&D	These items often benefit from separate detailed C&D. Removes many difficult to clean areas where infection can persist. Useful opportunity for repair & maintenance of equipment	Take out items such as moveable feeders, drinkers, cleaning tools (e.g. scrapers, shovels, ladders), and toys. Clean, disinfect and make safe any fixed, non-waterproof equipment.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve
Clean and disinfect the water system	This will stop the water supply becoming a persistent source of infection.	Use a recommended product and don't forget the header tank and filters.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve
Consider doing a thorough 'dry-clean' first	The presence of organic matter stops disinfectants working properly, so it's essential to remove as much as possible. Reduces time, detergent and water needed to soak & wash	Remove as much visible muck and feed residue as possible, including the dust from rafters, pipes and fan blades etc.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve



BEFORE PRESSURE WASHING AND DISINFECTING BEGINS:			Is what you do now effective?	What changes can you make to improve cleaning and disinfection?
Thoroughly wet all surfaces with water and detergent, soak for at least 30 minutes but preferably 2 hours or overnight.	<p>This helps breakdown any remaining organic matter. Detergent is essential for dissolving greasy biofilms.</p> <p>This makes Salmonella more susceptible to the C&D processes that follow.</p> <p>This can halve time needed for pressure washing.</p>	<p>Wetting down is best started within a few hours of the pigs leaving while the building is still warm.</p> <p>Use water and a detergent selected for the specific purpose.</p> <p>Make sure dirty water drains away freely without contaminating other areas.</p>	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
PRESSURE WASHING:			Is what you do now effective?	What changes can you make to improve cleaning and disinfection?
Consider a post-soak scrape and low pressure flush	This avoids splashing faecal matter over walls and equipment.	Especially where substantial organic matter remains after mucking out and soaking.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
Pressure wash and/or scrub all surfaces	<p>Pressure washing removes the visible dirt that carries Salmonella.</p> <p>Including a disinfectant at this stage helps reduce multiplication of dormant Salmonella on wet surfaces.</p>	<p>Consider including an inexpensive disinfectant in the pressure wash water, e.g. QAC (Quaternary Ammonium Compound)</p> <p>Ensure thorough cleaning of every surface, including out of sight and hard to reach spots.</p> <p>Try to work from ceiling to floor and avoid splashing previously cleaned areas with dirty water</p>	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
Allow to dry before applying disinfectant	<p>Applying disinfectant to clean surfaces that are dry allows it to soak into cracks and porous materials.</p> <p>Drying also avoids dilution of the disinfectant by films or pools of water on surfaces.</p>	Clean surfaces that are DRY are essential for the disinfectant to be most effective.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	

DISINFECTANTS AND DISINFECTING			Is what you do now effective?	What changes can you make to improve cleaning and disinfection?
Check the type of disinfectant used	Using an appropriate product is essential. Discuss with your veterinarian for specific guidance.	Make sure your disinfectant is effective against Salmonella under the present conditions. This should be a Defra approved disinfectant.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
Check disinfectant dilution rates	Using the correct dilution rate is essential. Check the information panel on the product and discuss with your veterinarian for specific guidance.	Ensure disinfectant is consistently used at the required dilution rate. Be aware that the dilution rate can vary with ambient temperature and amount of organic matter remaining on surfaces.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
Make up fresh quantities of disinfectant solution	This maximises the potency and effectiveness of the disinfectant. It also minimises waste.	Only make up what you need when you need it. Make sure staff know how to make up the correct concentrations and amounts.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
Apply disinfectant properly	Using the correct application rate and method is essential. Check the information panel on the product and discuss with your vet for guidance. This reduces the chances of missing any areas and helps ensure all surfaces receive the required amount of disinfectant.	Disinfectant is usually best applied evenly, under low pressure (eg knapsack sprayer). Move methodically through the room/building, working from top to bottom until all surfaces are saturated. Pay special attention to corners, and out of sight or hard to reach areas. Allow sufficient contact time if disinfectant is to be rinsed off.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
Allow to dry	Bacteria persist in wet conditions. Complete drying and providing plenty of downtime between groups increases the chances of breaking the Salmonella disease cycle.	5-7 days drying can reduce the bacterial load 10-fold. Allow rooms to dry completely before restocking. Consider using a portable blow heater to reduce drying times. Use water-repellent materials when replacing or refurbishing.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	

Your Goal



To stop reinfesting pigs on your farm with Salmonella



To do it cost-effectively

Zoonoses National Control Programme for Salmonella in pigs

A SYSTEMATIC APPROACH TO CLEANING and DISINFECTION			Is what you do now effective?	What changes can you make to improve cleaning and disinfection?
Clearly communicate	Unless your staff know exactly what they are supposed to do and how they are supposed to do it, C&D will not be effective.	Clearly communicate your C&D protocol to all staff. Provide demonstration and training for the required techniques. Accept nothing less than a good job.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
Maintain and calibrate equipment	Poorly maintained and calibrated equipment will not deliver detergent/disinfectant at the right concentrations.	Regularly maintain and calibrate all C&D equipment to ensure it works properly and so that staff find it easy to use.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
Apply the C&D routine to all areas	VLA regularly isolate Salmonella from muck scrapers (70%) other equipment (62%) passageways (49%) and the farm environment (43%)	Apply the C&D routine to all areas not just livestock pens and fittings but also passages, store rooms, feeding, cleaning & weighing equipment, break rooms, walkways, trailers etc	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
Regularly launder overalls and clean boots	Overalls but more especially boots are very good at transporting Salmonella around your unit.	Regularly launder overalls and clean boots. Never enter cleaned and disinfected facilities wearing dirty protective wear.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
Boot brushers, washers and foot dips	Disinfectant foot dips are only effective if used for dipping clean boots – use an effective boot brusher.	Clean boot brushers/washers and foot dips regularly. Refill with appropriate disinfectant. Place at every entry/exit.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
Good personal hygiene	Remember staff can infect pigs with Salmonella (just as pigs can infect people). Tell staff to stay out of the unit if they have diarrhoea.	Good personal hygiene of staff helps reduce the spread of disease. Make sure suitable hand washing & changing room facilities are provided and used.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
Monitor cost-effectiveness and progress	Gather information to feed back into your reviewing processes to make sure improvement is sustained and cost-effective.	Compare production data and bacterial loads before and after changes. Compare cost and effectiveness of different detergent and disinfectant products and equipment	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	
Check product safety information	It is essential to check health and safety requirements for all detergents and disinfectants etc.	Make sure you and your staff understand the safety information and take appropriate steps for safe use and disposal of disinfectant.	<input type="checkbox"/> Yes - effective <input type="checkbox"/> No - but room to improve	