



Cleaning and Disinfection

Vehicles



the Center for
Food Security
& Public Health

IOWA STATE UNIVERSITY®
College of Veterinary Medicine

Overview

- Any vehicle used on infected premises or with infected animals
 - Trailers, feed trucks, milk trucks, carcass transporters
 - Heavy machinery used during response
- Can be difficult



Site Selection

- Adjacent to entrance
- Flat terrain
- Impermeable surface
- House components
 - C&D equipment
 - Water supply
 - Waste water containment



Preparation

- Area two times the largest vehicle
- Holding area for disinfectant contact time
- Berming materials to contain fluid
- Drain area by sump pump into holding tank for disposal

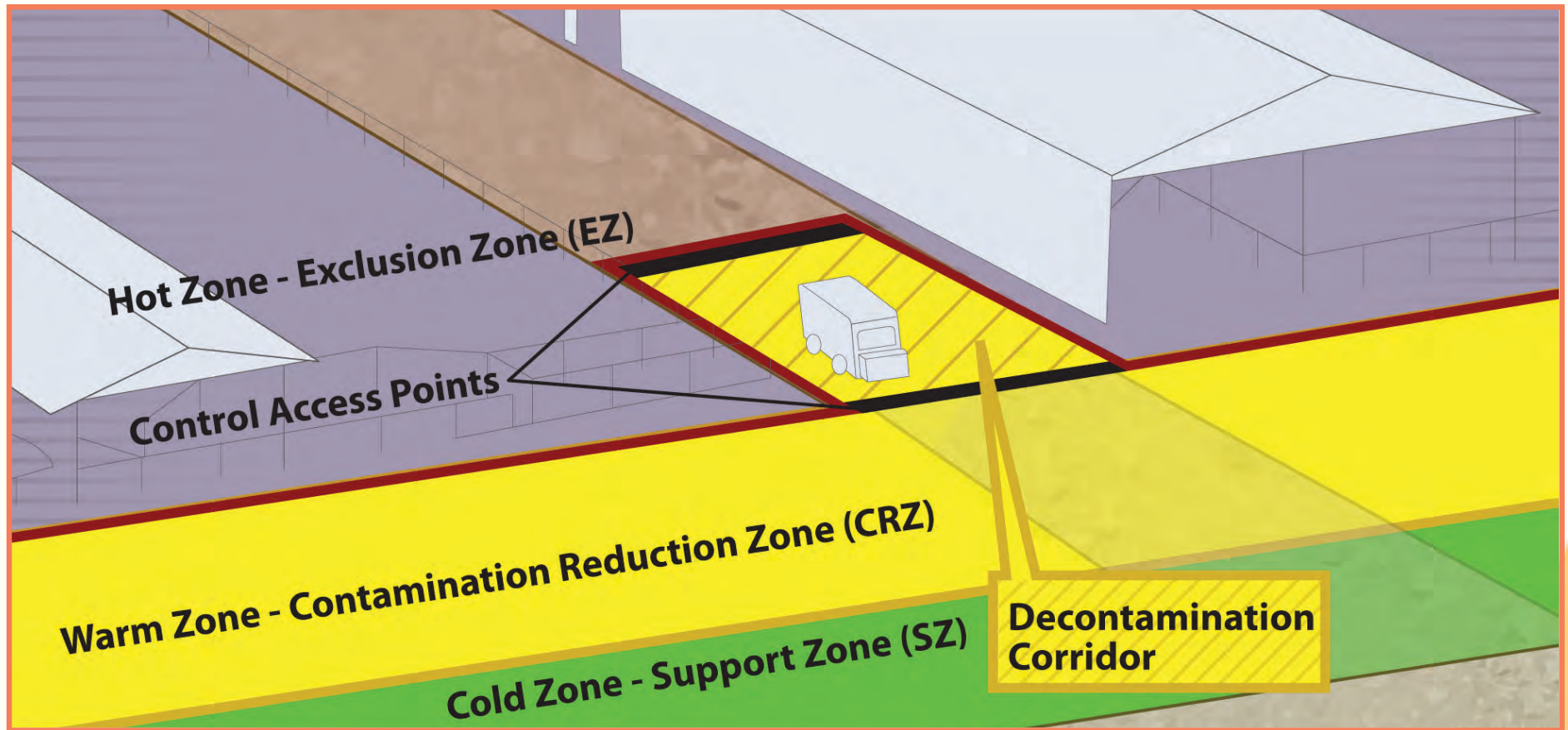


Disinfectant Preparation

- Use according to product label
- Only EPA-registered or approved products
- Prepare fresh solutions
 - Old solutions may have reduced efficacy
- Test kits can help check concentration



Biosecurity Work Zones



Basic Protocol

- Systematic manner
- Cleaning
 - Dry clean
 - Wash
 - Rinse and Dry
- Disinfection
 - Application
 - Contact time
 - Rinse and Dry

Cleaning	Dry Clean
	Wash
	Rinse & Dry
Disinfection	Application
	Contact Time
	Rinse & Dry

Vehicle Exterior: Dry Clean

- Remove visible organic material
 - Use brooms, shovels, brushes
 - Don't forget wheel wells
- Dispose in biosecure manner
- Remove items from interior



Vehicle Exterior: Wash and Rinse

- Wash with detergent and warm water
- Presoaking or degreaser for accumulations of urine/feces
- Use high pressure sprayer with caution
- Rinse with clean, warm water
- Allow to sit 5-10 min to drip off residual water





Vehicle Exterior: Disinfect

- Apply disinfectant
 - Low pressure spray, scrub brushes
 - EPA-registered product
 - Non-corrosive product
 - Allow necessary contact time
 - Reapply as needed
 - Rinse with clean, warm water
- Allow vehicle to dry thoroughly

Vehicle Interior

- Remove non-fixed items
- Sweep away gross debris
- Wash, rinse and dry
- Wipe EPA-registered disinfectant
 - Keep surfaces “wet” during contact time
- Allow interior to dry



C&D Equipment

- Equipment used for C&D tasks must also be
 - Cleaned and disinfected before reuse
 - OR
 - Properly disposed of



Safety

- Chemical Hazards
 - Skin, eye, respiratory irritation
- Physical Hazards
 - Slips, trips, falls
 - High pressure sprayer
- Personal Protective Equipment (PPE)
 - Gloves, masks, eyes



Environmental Hazards

- Runoff must be avoided
 - Infectious material
 - Chemical solution
- Toxic to aquatic organisms
- Further spread of pathogens



References

- <https://fadprep.lmi.org>
- USDA APHIS. FAD PReP NAHEMS
 - Highly Pathogenic Avian Influenza Standard Operating Procedures: Cleaning and Disinfection. February 2010.
 - Foot-And-Mouth Disease. Standard Operating Procedures: Cleaning and Disinfection. February 2010.
 - NAHEMS Guidelines: Cleaning and Disinfection. June 2011.



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