Self-Assessment Checklist for Enhanced Pork Production Biosecurity: Animals Raised Indoors



August 2017

Target Audience

This checklist and corresponding Information Manual for Enhanced Biosecurity are written for pork production sites where the animals are raised in enclosed animal buildings. The biosecurity measures apply to:

- Sites with several buildings or just one as long as all the pigs are raised indoors.
 - This includes sites with other susceptible species (e.g. cattle, sheep, and goats) kept on the premises.
- All individuals delivering to, servicing, or working on the site including family members and/or non-family employees responsible for animal care and husbandry.
- Sites that have **never been infected with or vaccinated for** foot and mouth disease (FMD), classical swine fever (CSF), and African swine fever (ASF).

Introduction

In the event of a foreign animal disease (FAD) outbreak in the United States (U.S.), maintaining business continuity for the pork industry is critical to the agricultural economy, food security, as well as animal health and well-being. The goal of the Secure Pork Supply (SPS) Plan is to provide a workable business continuity plan for pork producers that have pigs with no evidence of the FAD infection and associated industries that is credible to Responsible Regulatory Officials (local, state, tribal, and federal officials, as appropriate). In an actual FAD outbreak, decisions will be made by Responsible Regulatory Officials based on the unique characteristics of each outbreak.

During an FAD outbreak, it is the producer's responsibility to keep their animals from becoming infected, focusing on what they can control on their site. Biosecurity approaches are both structural and operational. Structural biosecurity is built into the physical construction and maintenance of a facility. Operational biosecurity involves management practices designed to prevent the introduction and spread of disease agents onto or off of the production site. An FAD will test the effectiveness of operational biosecurity practices because successful implementation of these practices depends on the awareness and behavior of individuals on the site.

The three foreign animal diseases of concern for the SPS Plan are 1) foot and mouth disease (FMD), 2) African swine fever (ASF), and 3) classical swine fever (CSF), also known as hog cholera. All three diseases are highly contagious and have a high impact on animal health and international trade; however, none of these diseases pose a food safety or public health concern.

Existing biosecurity plans for pork production sites may offer protection against endemic diseases but heightened precautions are needed for FADs. The enhanced biosecurity recommendations outlined in this document are based on the known exposure routes for the three FADs of concern. This document emphasizes four concepts that all pork production sites must implement to help protect their animals from endemic diseases and to be prepared in the event of an FAD outbreak in the U.S.:

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- 1. A Biosecurity Manager,
- 2. A written site-specific enhanced biosecurity plan,
- 3. A defined Perimeter Buffer Area, and
- 4. A defined Line of Separation.

This enhanced biosecurity checklist and the corresponding Information Manual for Enhanced Biosecurity can be used to develop a site-specific, written, enhanced biosecurity plan. All pork production sites must designate a Biosecurity Manager; this is item number 1 in the checklist below. The Biosecurity Manager develops the enhanced biosecurity plan PRIOR TO an outbreak; the plan addresses items 2-10 on this checklist. The biosecurity plan describes the scope of the operation, contains forms for documentation of training and signatures, explanations of procedures and signage used on the premises, and protocols written and communicated effectively in languages that are fully understood by the individuals responsible for implementation.

The biosecurity plan should describe the strategy for how each item could be implemented (supplies needed, changes in management practices, etc.). A majority of the biosecurity measures in the biosecurity checklist should be implemented even in the absence of an FAD outbreak to prevent entry and spread of domestic diseases. If producers have not implemented all of the items in the biosecurity checklist (such as a Cleaning & Disinfection Station at the entrance to the Perimeter Buffer Area) prior to the outbreak, they should implement them immediately when an FAD is detected in the U.S., Mexico, or Canada. If their production site is located in an FAD Control Area, Responsible Regulatory Officials will likely require that all of the items on the checklist, and possibly others, be implemented before animal movement is permitted.

Scope of Biosecurity Plan

Each premises must have its own biosecurity plan. Begin by defining your premises, clearly describing the animals (all species) and animal housing associated with the premises. Animals connected to the operation but reared at another site and accessed via a public road may be considered a separate premises, have a separate Premises Identification Number (PIN), and therefore, a separate biosecurity plan. Biosecurity plans for premises owned/managed similarly may have significant overlap. A PIN will be required to request movement permits during an outbreak. A PIN includes a valid 911 address and a set of matching coordinates (latitude and longitude) reflecting the actual location of the animals on the premises. Request a PIN from the office of your State Animal Health Official.

Other businesses, animal or non-animal related, operated from the same premises should also be accounted for in the biosecurity plan. Some animal or animal product related examples could include sale or distribution of compost, feed, or a petting zoo. Non-animal examples could include seed sales or a repair shop. Keep this in mind when completing the checklist and writing the biosecurity plan.

Acknowledgments

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Recommendations for Biosecurity

Each self-assessment checklist item has three possible responses, described below. Implementation of each component is essential to prevent virus entry and protect the health and well-being of the animals on the site.

- In place: All items are addressed in the biosecurity plan and are, or are capable of being, implemented on the pork production site as evidenced by visual inspection or by signed and/or dated documentation, as applicable, or as described.
- In progress: Some, but not all, of the items are addressed in the biosecurity plan and are, or are capable of being, implemented on the pork production site as evidenced by visual inspection or by signed and/or dated documentation, as applicable, or as described.
- Not in place: The items have not been addressed in the biosecurity plan or are not capable of being implemented on the pork production site.

1. I

biosecurity plan with the assist veterinarian) and ensuring bios	tified for the site. This ind ance of the herd veterinari security training of, or com The Biosecurity Manager	ividual is responsible for developing the tan (if the Biosecurity Manager is not a municating biosecurity measures with, all has the written authority to ensure		
☐ In place	☐ In progress	☐ Not in place		
A site-specific, written, enhanced biosecurity plan has been developed and implemented by the Biosecurity Manager. It is reviewed at least annually and whenever the site goes through a change that affects biosecurity (expands, adds a new aspect of the business, etc.). The biosecurity plan clearly defines the scope of the operation and includes biosecurity for other susceptible species kept on the premises. The biosecurity plan includes a premises map labeled with the site entry, Perimeter Buffer Area (PBA), Line of Separation (LOS), access point(s), cleaning and disinfection (C&D) station(s), designated parking, and carcass disposal/pickup location. The map indicates vehicle movements (animal transport vehicles, deliveries, etc.) and carcass removal pathways. The Biosecurity Manager ensures that all individuals entering the site frequently (weekly or more often) have access to a copy of the biosecurity plan.				
☐ In place	☐ In progress	□ Not in place		
Training The Biosecurity Manager(s) and essential personnel are trained at least annually about the biosecurity measures necessary to keep an FAD out of the herd; training is documented. The Biosecurity Managers(s) informs individuals entering the site of the biosecurity measures they are to follow in a language they understand. Individuals are aware of the biosecurity concepts and procedures that apply to their specific areas of responsibility. The biosecurity plan describes the training required before entering this site.				
☐ In place	☐ In progress	☐ Not in place		

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2.

3. Protecting the Pig Herd

Site Entry

protected war If a locked by a barrier mu	ith a gate or suitable barn parrier is not possible at the list be present restricting	rier (e.g. cable) which is the site entrance (such as	locked when the facility is not attended. s when a house uses the same driveway), ehicles to the pork production facilities stricted.
	☐ In place	☐ In progress	□ Not in place
There is a cl		d parking area outside of and have not been cleand	The PBA, away from animal areas, for ed and disinfected.
	☐ In place	☐ In progress	□ Not in place
The site has to limit mov perform dut occur outsid	rement of the virus near a ties within the PBA during	animal housing. The PBA is classified the course of their dails possible. The PBA is classified the reaches are the reaches and the reaches are the reaches ar	ter control boundary around the buildings A is established so that individuals can ly tasks and so that routine deliveries learly defined in the biosecurity plan and
	☐ In place	☐ In progress	□ Not in place
Access Pointrope). Vehi contaminati	PBA is restricted to a line at is clearly marked with cles moving through the	a sign and protected with PBA Access Points must All individuals and equi	ded PBA Access Points. Each PBA has a suitable barrier (e.g. cable, gate, st be cleaned to remove visible ipment moving through PBA Access
	☐ In place	☐ In progress	□ Not in place
There is an contamination Access Point proper select the C&D state waterways,	on and then disinfect vehict. The C&D station is option and use of personal ation is managed following.	ked, and equipped C&D shicles, equipment, and its berated by individuals who protective equipment anng state and local regular traffic areas. The bio	station with the means to remove visible ems needing to enter the PBA at a PBA ho have received documented training in d the principles of C&D. Runoff from tions, ensuring it does not enter security plan contains contingency plans
	☐ In place	☐ In progress	☐ Not in place
The site has virus into ar building hou	eas where susceptible arusing the animals form the	nimals can be exposed. In the LOS. The LOS is clean	rol boundary to prevent movement of n many situations, the walls of the arly defined in the biosecurity plan and is nly cross the LOS through clearly marked

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and controlled LOS Access Points(s), following appropriate biosecurity measures. Areas

	contaminated after loading/unloading animals are cleaned and disinfected according to the biosecurit plan.				
	☐ In place	☐ In progress	☐ Not in place		
	Access Point is clearly marked people, and items crossing thre While the load-out area is a Lo	d with a sign in a language ough the LOS Access Point OS Access Point, it should s (animals, equipment, peo	ntrolled LOS Access Points. Each LOS e understood by all entering. Equipment, nts follow specific biosecurity measures. I not serve as an entry point for personnel ople) across the LOS are recorded and		
	☐ In place	☐ In progress	☐ Not in place		
	Securing the Buildings Buildings are locked when no	one is present.			
	☐ In place	☐ In progress	☐ Not in place		
	Vehicles and Equipment (non-animal transport) All vehicles and equipment (not containing live animals) are cleaned and effectively disinfected prior to entering the PBA. Sharing of equipment with other sites is minimized. □ In place □ In progress □ Not in place				
	ž • ž	hicles that enter the PBA	cles) are effectively cleaned and disinfected prior loaded for delivery to the site (incoming	or to	
	☐ In place	☐ In progress	☐ Not in place		
5.	Prior to Arriving at the Site Access is limited to individuals who are essential to the operation of the production site. Everyone crossing the LOS arrives at the site having showered and wearing clean clothing and footwear sinc last contacting susceptible animals. All individuals crossing the LOS have a signed agreement on f agreeing to follow these instructions.				
	☐ In place	☐ In progress	☐ Not in place		
	worker. The entry logbook is	monitored by an individua	he entry logbook, unless they are a schedul l working on the site to ensure accurate records for workers are maintained.	led	
	☐ In place	☐ In progress	☐ Not in place		

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	Biosecure Entry/Exit Procedures All individuals entering the PBA or crossing the LOS at a controlled Access Point follow a biosecure entry and exit procedure as specified in the biosecurity plan.				
	☐ In place	☐ In progress	☐ Not in place		
6.	and no current or recent evidence	nome from sources with of an FAD infection.	documented, enhanced biosecurity practices Semen is transported in containers whose ninimize the risk of virus transmission.		
	☐ In place	☐ In progress	☐ Not in place		
	moving any animals to another po	ntrol Area are introduction ork production site with	•		
	☐ In place	☐ In progress	☐ Not in place		
	Contingency Plan for Interru A plan exists to manage pigs in a for several weeks.	•	nent site in the event animal movement is stopped		
	☐ In place	☐ In progress	☐ Not in place		
		d by individuals or anim	irection across the LOS at an Access Point at mals after loading/unloading are effectively n.		
	☐ In place	☐ In progress	☐ Not in place		
7.		•	the attraction of wildlife, rodents, and other g dead animals to a common disposal site do		
	☐ In place	☐ In progress	☐ Not in place		
8.		a manner that prevents	s exposure of susceptible animals (either on or tate, local, and Responsible Regulatory		
	☐ In place	☐ In progress	☐ Not in place		
	A plan exists for storing manure outbreak.	on-site in the event it c	annot be permitted to move off-site during an		
	☐ In place	☐ In progress	☐ Not in place		

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9. Rodent, Fly, Wildlife, and Other Animal Control Rodent and Fly Control Written rodent and fly control programs are in place and implementation is documented. ☐ In place ☐ In progress □ Not in place Wildlife and Other Animal Control Facilities are designed and maintained to inhibit all animals, including birds, from crossing the LOS and contacting pigs. ☐ In place ☐ In progress □ Not in place **10. Feed** Grain and feed are delivered, stored, mixed, and fed in a manner that minimizes contamination. Feed spills are cleaned up promptly and disposed of to avoid attracting wildlife. ☐ In place ☐ In progress □ Not in place Comments Please send comments or suggested edits for improvement to: spsinfo@iastate.edu Additional Resources

The Secure Pork Supply website has additional resources available at: www.securepork.org

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