

EXAMPLE PLAN- Wean-finish site

Johnson Pork Enhanced Biosecurity Plan for FAD Prevention in Iowa

Date Created: 12/4/18

This Biosecurity Plan is based off of the Secure Pork Supply (SPS) Self-Assessment Checklist for Enhanced Pork Production Biosecurity: Animals Raised Indoors, [August 2017] and was developed using guidance from the SPS Information Manual for Enhanced Biosecurity: Animals Raised Indoors. All documents are available at www.securepork.org. In the Plan below, all items have been implemented except those indicated which will be implemented prior to requesting an animal movement permit.

Scope of Biosecurity Plan

- National Premises Identification Number (Prem ID or PIN): *1234567*
- Premises Address: *711 Bacon Lane, Pork City, Iowa 55555*
- Premises GPS Coordinates: *55.5555° N, 55.5555° W*
- Animals on primary premises: *5,200 hd wean-to-finish pigs*
- Other business operations on premises? *No*
If yes, what? *N/A*
- Secondary premises locations:
 - *Wean-to-Finish*
 - *PIN:1234569*
 - *Premises address: 123 Hog Road, Pork City, Iowa 55555*
 - *Premises GPS Coordinates: 55 ° N, 55° W*
 - *Animals on premises: 2,600 hd wean-to-finish pigs*
 - *Other business operations?: No*

1. Biosecurity Manager and Written Plan

The **designated Biosecurity Manager** for this site and their contact information follows:

NAME: *Sam Johnson*
PHONE: *555-555-5555*
EMAIL: *samj@bacon.com*

In the event the Biosecurity Manager is away from the site, **their designee's** contact information is:

NAME: *Tom Johnson*
PHONE: *555-555-5550*
EMAIL: *tomj@bacon.com*

The Biosecurity Manager's contact information is posted *near the entry gate, near the visitor check-in window, and on the refrigerator in the employee break room.*

Sam Johnson and *Tom Johnson* have the written authority to ensure compliance with biosecurity protocols and take corrective action as needed.

Sam Johnson developed the site-specific biosecurity plan with the assistance of

- *Dr. Molly Smith*, a licensed veterinarian whose contact information is:
PHONE: 555-555-5050
EMAIL: *msmith@baconvet.com*

The Biosecurity Manager or their designee

- communicates with and/or trains individuals entering on biosecurity measures to follow;
- reviews the biosecurity plan at least annually and updates it whenever the site goes through a change affecting biosecurity;
- ensures that all individuals entering the site frequently (weekly or more often) have access to a copy of the biosecurity plan;
- is capable of implementing the written plan if FMD, CSF, or ASF is diagnosed in the U.S.; and
- has the authority to take corrective action, as needed, when biosecurity protocols are not followed.

A labeled premises map is included at the end of this plan and can be found on the premises *near the entry gate and near the entry door*.

2. Training

The people listed below are trained at least *annually* about the biosecurity measures necessary to keep an FAD out of the herd. This training is documented and available for review upon request.

- *Site Manager*
- *Biosecurity manager*
- *Animal Caretakers*

The Biosecurity Manager(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. Our required training is described below.

All individuals entering must understand how to:

- Contact the Biosecurity Manager(s)
- Respect the Perimeter Buffer Area (PBA)
- Cross the Line of Separation (LOS), if required, following arrival and biosecure entry requirements
- Perform biosecurity measures for their specific job duties

In addition, employees must:

- Undergo biosecurity training prior to starting to work at the site;
- Understand the importance of biosecurity;
- Review the entire biosecurity plan;
- Review the labeled premises map;
- Know who to report to if they see someone not complying or something preventing compliance; and
- Recognize the consequences for not complying with biosecurity protocols.

Communication occurs with drivers, delivery and service personnel, veterinarians, livestock transporters, and visitors through the following methods:

- ☒ phone calls, text messages, emails, faxes
- ☒ a premises map highlighting the route drivers are to follow upon entering the site

3. Protecting the Pig Herd

Site Entry

Entry to the site (such as driveways) is restricted to *one* site entry and is labeled on the premises map at the end of this plan.

- Each entry point, including unused entries, is protected with a suitable barrier consisting of a *gate* to restrict entry.

The entry point is secured with *locked gates*.

Signs written in *English and Spanish* are posted at the site entry that include *the biosecurity manager's contact information as well as where to locate the biosecurity protocols for entering*.

Perimeter Buffer Area (PBA)

The Perimeter Buffer Area is labeled on the premises map at the end of this plan. The PBA is marked on-site *by a rope*.

PBA Access Point(s)

Entry to the PBA is restricted to *five* controlled PBA Access Point(s) and each are labeled on the premises map at the end of this plan. The PBA Access Points are clearly marked with a suitable barrier of *a rope* to restrict entry.

Signs written in *English and Spanish* are posted at all PBA Access Points that include *the biosecurity protocols for entering*.

All movements (animals, vehicles, equipment, people) which enter the PBA are recorded and these documents are kept in the *site office* and are available for review upon request.

Deliveries are made outside of the PBA at the *producer's home*, which is not included premises map, but signage is posted at the PBA Access Point.

Vehicles and equipment entering the PBA Access Points are cleaned to remove visible contamination and then disinfected at the Cleaning and Disinfection Station.

People and items crossing through the PBA Access Points follow appropriate specific biosecurity steps, described under Biosecure Entry Procedure in this plan.

Cleaning and Disinfection (C&D) Station

There is an operational, clearly marked, and equipped C&D station located *on the south side of the premises accessible via the gravel driveway* and it is labeled on the premises map at the end of this plan. The wash pad for the C&D station is made of *gravel* and slopes away from animal housing, feed receiving or storage areas, waterways, and on-farm traffic areas. This site uses *drainage ditches* to manage runoff from the C&D area to ensure susceptible animals are not exposed. Runoff from the C&D Station is managed following all state and local regulations.

This site has access to all the equipment and supplies needed to operate the C&D Station successfully. The SOP for the C&D process is available upon request.

The following individuals have received documented training in proper selection and use of personal protective equipment, the principles of C&D to avoid introducing an FAD virus on the site, and are able to operate the C&D Station effectively.

- *SAM JOHNSON*
- *TOM JOHNSON*

In the case of inclement weather (freezing temperatures, thunderstorms, high winds) when the C&D Station cannot be operated, we have the following contingency plans to ensure vehicles do not bring visible contamination onto our site:

- *Vehicles will be cleaned at a building about 1 mile away from this site. The road between the building and the site is not heavily traveled and does not usually have animal transport equipment travel on this road travel to other sites. Therefore, the risk of cross contamination is minimal.*

Designated Parking Area

The designated parking area is clearly marked onsite with a *rope* and labeled on the premises map at the end of this plan. It is located outside of the PBA and away from animal areas.

Line of Separation (LOS)

The Line of Separation is labeled on the premises map at the end of this plan.

LOS Access Point(s)

Entry to the LOS is restricted to *five* controlled LOS Access Point(s) and each are labeled on the premises map at the end of this plan. The LOS Access Points are clearly marked with *a bench entry system and showers in the employee building, as well as brightly colored spray paint on the flooring demarcating the LOS access points at each end of the barns.*

Signs written in *English and Spanish* are posted at all LOS Access Points that include *the biosecurity protocol required for entry.*

All movements (animals, equipment, supplies, people) which cross the LOS are recorded and these documents are kept in the *site office* and are available for review upon request.

The designated animal loading/unloading areas are labeled as an LOS access point on the west side of the buildings and they are NOT used for a people entry point.

People crossing the LOS Access Points follow appropriate specific biosecurity steps, described under Biosecure Entry Procedure in this plan.

Biosecurity measures taken when food, personal items, equipment, and supplies cross the LOS include

- *The surface of lunch containers need to be wipeable so they can be wiped off with disinfecting wipes.*
- *Personal items such as coats, car keys, wallets, or purses are stored in the employee lockers located prior to crossing the bench. All off-farm footwear is removed prior to crossing the bench.*
- *Personal items such a cell phone that needs to cross the LOS has to pass through disinfectant.*
- *Other supplies and equipment are fumigated in decontamination room.*

Securing the Buildings

Sam Johnson is responsible for ensuring the buildings are locked.

4. Vehicles and Equipment

Vehicles and Equipment (non-animal transport)

All vehicles and equipment not containing live animals are cleaned to remove visible contamination and effectively disinfected prior to crossing the PBA; otherwise entry is prohibited.

Concerning the sharing of equipment with other sites:

Equipment used on this site is not shared with other sites.

Livestock Trucks/Trailers (animal transport vehicles)

All empty animal transport vehicles are cleaned and disinfected prior to arrival at the site (outgoing loads) or before animals are loaded for delivery to the site (incoming loads).

Animal transport vehicles containing animals that are not being unloaded at this site are not allowed to cross the PBA.

The PBA is relocated close to the building while animals are unloaded/loaded. After a building is emptied or filled, the PBA is reestablished by applying disinfectant to the gravel surface. In the summer, sunlight helps kill off any possible virus in order to reestablish the PBA. In cold weather, lime is applied to the surface.

5. Personnel

Prior to Arriving at the Site

The Biosecurity Manager ensures that everyone who needs to cross the LOS has been instructed on how to arrive at the site:

- with a clean vehicle interior (free of all animal manure/excrement) that has not become contaminated by soiled clothes, footwear, or other items.
- having showered and wearing clean clothing and footwear since last contacting susceptible animals.
 - For individuals that work with animals and live on-site, showering and changing into clean clothing/footwear before leaving the house is required.
 - For individuals living off-site, after showering and changing into clean clothes and footwear, they must NOT contact animals, live or dead, or facilities where they are held prior to arrival at the site.
- informed of the biosecurity measures they are to take once they arrive.

These individuals have a signed Employee and Visitor Arrival Agreement on file agreeing to follow our biosecure entry procedures (described below).

Entry Logbook

Everyone crossing the LOS Access Point(s) completes the entry log, which is located *at the check-in window in the site office*, unless they are a scheduled worker.

The entry log is monitored by *Sam Johnson* on the site to ensure accurate completion.

The contact information and work schedule records for all workers are maintained and *stored in the site office*.

Biosecure Entry/Exit Procedure

When entering the PBA, all individuals must:

- Put on disposable or disinfectable footwear
- Put on gloves or apply hand sanitizer

Most deliveries and items entering the PBA are recorded through invoices and delivery tickets. These items are stored in the office files.

Vehicles and equipment entering the PBA need to be cleaned and disinfected (Vehicles are addressed in Section 6: Vehicles and Equipment).

All individuals crossing the LOS must:

- Shower in and shower out.
- Put on site-specific coveralls or clothing and footwear at the LOS Access Point.
 - Absolutely no street clothes are allowed past the LOS.
- The same procedure is in reverse when crossing back across the LOS from the pig side of the LOS, leaving site-specific clothing or coveralls and footwear inside the LOS.

6. Animal and Semen (if Applicable) Movement

Incoming Animals and Semen

Pigs come only from sources with documented, enhanced biosecurity practices that align with our biosecurity practices and have no current or previous evidence of the FAD viruses. Diagnostic testing of animals as requested by the Responsible Regulatory Officials is negative.

Pre-movement Isolation Period

- ☒ We **only accept** animals from a site in the FAD Control Area that has not received any animals from another production site with susceptible animals for at least [7 DAYS].

Contingency Plan for Interrupted Animal Movement

In the event animal movement is stopped for several weeks, this is our plan for managing animals in a biosecure manner:

- ☒ Cull animals will be humanely euthanized and properly disposed of on the operation (described under Carcass Disposal below).
- ☒ Housing, feed, and healthcare equipment are available for 5200 of market ready pigs for a period of a few weeks depending on time of the year. A contingency plan has been established for ration formulation, transport and market of animals that are at, approaching, or have exceeded market weight. If animals were double stocked initially and then it was determined that animals are not allowed to move off of the site, we could maintain the higher number of animals for 6-7 weeks before animals would need to be moved or possibly euthanized.
- ☒ Humane euthanasia equipment and supplies are available if needed.

Loading Animals

Animals leaving the site only move in one direction across the LOS at an Access Point labeled on the premises map at the end of this plan. All areas inside the LOS that become contaminated by individuals or animals loading are cleaned with detergent and effectively disinfected by trained personnel after loading is complete. The SOP for the C&D process is available upon request.

- The animal loading/unloading area is NOT a people entry point.

The following individuals have received documented training in proper selection and use of personal protective equipment, the principles of C&D to avoid introducing an FAD virus to the site, and are able to effectively C&D the loading area:

- SAM JOHNSON
- TOM JOHNSON

7. Carcass Disposal

Currently animals are disposed of by rendering. However, in an FAD outbreak, dead animals (normal mortality numbers) will be disposed of by *composting* in a way that prevents the attraction of wildlife, rodents, and other scavengers, and is in accordance with state and federal laws. The routes for carcass movement and disposal to be used during an outbreak are labeled on the premises map at the end of this plan.

- Dead animals are disposed of within the PBA using *on-site composting*.

In the event of a large number of mortalities unrelated to the FAD infection (toxicity, heat stress, etc.), dead animals will be disposed of by *composting* which also prevents the attraction of wildlife, rodents, and other scavengers, and is in accordance with state and federal laws.

8. Manure Management

Manure is stored *in deep pits*.

In the event of a prolonged outbreak, we can store manure *several months depending when the outbreak occurs*. After that time, the method for manure removal is to *knife it in surrounding fields*. This will prevent exposure of susceptible animals and meet state, local and Responsible Regulatory Officials regulations.

- All manure handling vehicles and equipment from other sites is cleaned to remove all manure and disinfected with either heat or a chemical disinfectant followed by drying. In the event that manure-handling equipment from another location cannot be effectively C&D, a plan to modify the PBA temporarily near the manure storage facility during manure removal is in place. The affected areas are cleaned and disinfected before returning to the original PBA.

All manure handling personnel must have showered and changed into clean clothes and footwear prior to arriving at the site. These expectations have been communicated to contract companies, and signed and dated when read. This communication is kept on file *in the site office*.

9. Rodent, Fly, Wildlife, and Other Animal Control

Rodent and Fly Control

The following rodent and fly control measures are in place

- This site utilizes *bait stations* to discourage rodent movement and has designated *Rachel Baker* as the rodent control monitor responsible for implementing the rodent control plan. Bait is checked *every other Thursday* by *Rachel Baker* and replaced as needed. This protocol is in accordance with state and local regulations for controlling rodents.
- This operation utilizes *flytraps* for fly control and has designated *Rachel Baker* as the fly control monitor responsible for implementing the fly control plan. This protocol is in accordance with state and local regulations for controlling flies.
- Weeding and grass control is done *as needed*.
- The sanitation of general office areas is completed *weekly*.
- Trash is removed every *week*. In an outbreak, the garbage truck *would not* come onto the site.

Wildlife and Other Animal Control

The following control measures are in place to minimize an animal from entering the buildings.

- This operation utilizes *enclosed buildings and walkways* to discourage animal entry and has designated *Rachel Baker* as the individual to monitor.
- Dogs, cats, and other pets are NOT allowed to enter the buildings.
- Bird netting is used to keep birds out of the buildings.

10. Feed

Grain and feed commodities are delivered in trailers that are covered during transport.

In an outbreak, feed trucks delivering feedstuffs or finished feed would

- Feed is augered into feed bins or bagged feed is unloaded without feed trucks entering the PBA.

Feed spills are cleaned up and disposed of as soon as possible to minimize attraction of wildlife and rodents.











Feed spills clean-up and disposal is monitored by *Sam Johnson*.

Example: Labeled Premises Map

Premises Address: 711 Bacon Lane, Pork City, Iowa 55555

PremID or PIN: 1234567

Label your premises map with the following:

-  Perimeter Buffer Area (PBA)
-  PBA Access Point(s)
-  Line of Separation (LOS)
-  LOS Access Point(s)
-  Vehicle cleaning and disinfection (C&D) station(s)
-  Designated parking area
-  Carcass disposal/pickup location
-  Carcass removal pathways
-  Vehicle movements (animal transport vehicles, deliveries, etc.)
-  Site Entry

