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# ASF Domestic Herd Plan

## *Euthanasia/Depopulation, Disposal, & Virus Elimination Procedures*

November 2020

Note: This ASF Herd Plan template is intended to serve as a guide. It must be amended as necessary to be specific to the single premises identified below. Attach any supplemental materials necessary and reference in each section as applicable.

Premises Information Needed	
Herd type	<input type="checkbox"/> Commercial <input type="checkbox"/> Backyard
Network System	<input type="checkbox"/> Integrated <input type="checkbox"/> Independent
Premises ID #	
Special ID	
State abbreviation, county, and site #	
<i>Premises owner</i>	
<input type="checkbox"/> Check if primary point of contact	
Name of premises	
Address of premises	
<i>Swine owner</i>	
<input type="checkbox"/> Check if primary point of contact	
Name of representative if applicable	
Address of swine owner	
<input type="checkbox"/> Check if same as above	
Swine present on date of appraisal	
Production Type (e.g., finisher)	
Purpose (e.g., exhibition)	
Inventory	
Age	

This document is a written herd management agreement developed between USDA APHIS Veterinary Services (VS) and \_\_\_\_\_ (*Insert State initials*) (hereafter, “the State” or “State”) with input from \_\_\_\_\_ (*Insert swine owner and/or premises owner*). This herd will be handled in accordance with the Initial State Response and Containment Plan (ISRCP), the [USDA APHIS African Swine Fever Response Plan: The Red Book](#), and the Code of Federal Regulations (CFR).

## BRIEF HISTORY

Information Needed	
Clinical signs ( <i>brief description</i> )	
Daily mortality rate (# of dead swine/swine population <i>on date of initial sampling</i> )	
Date first clinical signs were noted	
Date initial samples were collected	
Date presumptive positive test results were reported	
Date confirmatory positive test results were reported	
Date written premises quarantine was issued	

THE MAIN TENETS OF THIS PLAN INCLUDE:

- ◆ Restricting movement and enhancing biosecurity,
- ◆ Investigating sources of infection,
- ◆ Euthanasia/depopulation of swine on the premises,
- ◆ Disposal of carcasses and any other contaminated materials,
- ◆ Eliminating the virus from the premises, and
- ◆ Ensuring the premises is free of African Swine Fever.

## REQUESTS FOR INDEMNITY FOR DISPOSAL, CLEANING, AND DISINFECTION ACTIVITIES

In order for USDA APHIS to indemnify swine owner(s) of ASF affected premises, USDA APHIS must approve any depopulation or destruction activities *before* euthanasia/depopulation or destruction of animals or materials occurs; the *Appraisal and Indemnity Request Form (ASF Appendices A1 and/or A2)* must be completed and signed. The value of the swine will be obtained from (a) a VS-prepared calculator based on the fair market value of the swine, and/or (b) receipts.

Before cleaning and disinfection, the premises will be inspected by the swine or premises owner(s) and VS or State personnel to determine whether there are contaminated items for which the cost of cleaning and disinfection would exceed the value of the materials, or for which cleaning and disinfection would be impractical for another reason. The fair market value (used price) of these items will be determined by a State or VS appraiser with input from the owner. Prior written VS approval is required for destruction of items for which reimbursement will be claimed.

Any disposal of swine and cleaning and disinfection of premises, conveyances, and materials for which reimbursement is requested must be performed under a separate agreement between the claimant and VS. The agreement, consisting of a detailed financial plan must be signed by all parties *before* the start of any virus elimination activities for which reimbursement is claimed. Any work performed before the agreement is signed may not be eligible for reimbursement.

## PRIMARY RESPONSIBILITIES

- ◆ *Euthanasia/depopulation* will be,

- the responsibility of  swine owner  contract grower  State and/or  Federal agency (*check responsible party*), and
- carried out by  swine owner  contract grower  3<sup>rd</sup> party contractor  State and/or  Federal agency (*check person performing euthanasia/depopulation*), with oversight by VS and the State.
- ◆ *Disposal* will be,
  - the responsibility of  swine owner  contract grower  State and/or  Federal agency (*check responsible party*), and
  - carried out by  swine owner  contract grower  3<sup>rd</sup> party contractor  State and/or  Federal agency (*check person performing disposal*), with oversight by VS and the State.
- ◆ *Cleaning* will be,
  - the responsibility of  swine owner  contract grower  State and/or  Federal agency (*check responsible party*), and
  - carried out by  swine owner  contract grower  3<sup>rd</sup> party contractor  State and/or  Federal agency (*check person performing cleaning*), with oversight by VS and the State.
- ◆ *Disinfection* will be,
  - the responsibility of  swine owner  contract grower  State and/or  Federal agency (*check responsible party*), and
  - carried out by  swine owner  contract grower  3<sup>rd</sup> party contractor  State and/or  Federal agency (*check person performing disinfection*), with oversight by VS and the State.

## MOVEMENT RESTRICTIONS AND ENHANCED BIOSECURITY

The verbal quarantine was issued by \_\_\_\_\_ (*insert name of animal health official*) on \_\_\_\_\_ (*insert date*). The written quarantine document was issued on \_\_\_\_\_ (*insert date*) and receipt was acknowledged by signature of \_\_\_\_\_ (*insert swine or premises owner, or representative*).

Does this premises have an approved Secure Pork Supply plan in place? Yes  No

If yes, obtain a copy and attach to this herd plan along with the corresponding map describing the premises.

THE QUARANTINE WILL NOT BE RELEASED BEFORE:

- ◆ completion of an epidemiologic investigation,
- ◆ contaminated materials are disposed of in accordance with local and/or State regulations,
- ◆ the farm is cleaned and disinfected according to the measures outlined in the Virus Elimination section below, and
- ◆ the requirements for a Control Area release have been met.

## EPIDEMIOLOGIC INVESTIGATION

A State or Federal veterinarian will conduct an investigation to identify potential pathways for ASF virus (ASFV) to enter or leave the premises. An investigation should be initiated as soon as possible following the detection of ASF on this premises.

An *ASF Epidemiologic Questionnaire* will be provided and serves as a guide for identifying potential pathways of ASFV introduction onto the premises and potential movement of ASFV off

the premises. All sections of the form should be completed through direct conversation with the individual(s) most familiar with the management of the swine on the premises. In addition to interviewing the herd caretaker(s), the veterinarian conducting the investigation may directly observe biosecurity and/or management practices.

Copies of completed investigations will be provided to the signatories of this plan.

**EUTHANASIA/DEPOPULATION**

\_\_\_\_\_ (Insert all, or specify which subset of) domesticated swine on the premises will be euthanized/depopulated as quickly and humanely as possible. Until euthanasia/depopulation procedures are initiated, the responsible party will ensure that swine are provided with food, water, and appropriate environmental conditions (e.g. ventilation and temperature control).

Workers don personal protective equipment (PPE). Before euthanasia/depopulation or disposal activities begin, the responsible party will designate a clean area and a dirty area and maintain biosecurity measures in these areas, with oversight by State or VS personnel.

Swine \_\_\_\_\_ (insert will be/were) euthanized/depopulated using (choose all that apply for each swine type):

Type	Euthanasia Method <i>(select all that apply)</i>	Euthanasia Start Date	Euthanasia Completion Date	State/VS Oversight
Sucking Pigs	<input type="checkbox"/> Carbon dioxide (CO <sub>2</sub> ) <input type="checkbox"/> Manual blunt force trauma <input type="checkbox"/> Non-penetrating captive bolt <input type="checkbox"/> Veterinarian-administered anesthetic overdose <input type="checkbox"/> Electrocution, head-to-heart <input type="checkbox"/> Other:			<input type="checkbox"/> Yes <input type="checkbox"/> No
Nursery Pigs	<input type="checkbox"/> Carbon dioxide (CO <sub>2</sub> ) <input type="checkbox"/> Non-penetrating captive bolt <input type="checkbox"/> Penetrating captive bolt <input type="checkbox"/> Veterinarian-administered anesthetic overdose <input type="checkbox"/> Electrocution, head-to-heart <input type="checkbox"/> Gunshot <input type="checkbox"/> Other:			<input type="checkbox"/> Yes <input type="checkbox"/> No
Feeder/ Grower/ Market Pigs	<input type="checkbox"/> Carbon dioxide (CO <sub>2</sub> ) <input type="checkbox"/> Penetrating captive bolt <input type="checkbox"/> Veterinarian-administered anesthetic overdose <input type="checkbox"/> Electrocution, head-to-heart <input type="checkbox"/> Gunshot <input type="checkbox"/> Other:			<input type="checkbox"/> Yes <input type="checkbox"/> No

Type	Euthanasia Method <i>(select all that apply)</i>	Euthanasia Start Date	Euthanasia Completion Date	State/VS Oversight
Sows/ Boars	<input type="checkbox"/> Carbon dioxide (CO <sub>2</sub> ) <input type="checkbox"/> Penetrating captive bolt <input type="checkbox"/> Veterinarian-administered anesthetic overdose <input type="checkbox"/> Electrocution, head-to-heart <input type="checkbox"/> Gunshot <input type="checkbox"/> Other:			<input type="checkbox"/> Yes <input type="checkbox"/> No
Backyard/ Other:	<input type="checkbox"/> Carbon dioxide (CO <sub>2</sub> ) <input type="checkbox"/> Penetrating captive bolt <input type="checkbox"/> Veterinarian-administered anesthetic overdose <input type="checkbox"/> Electrocution, head-to-heart <input type="checkbox"/> Gunshot <input type="checkbox"/> Other:			<input type="checkbox"/> Yes <input type="checkbox"/> No

## DISPOSAL

Wastes requiring disposal, including carcasses and associated materials that cannot be cleaned and disinfected, must be disposed of in accordance with local, State, and Federal regulations. Options for disposal may be limited; APHIS, State personnel, and subject matter experts will collaborate to determine best approaches that meet regulatory requirements. Amend the text below as necessary for this premises to clearly describe the disposal methods and procedures used.

### ◆ Disposal of all dead swine.

With supervision by State and/or VS personnel, carcasses will be disposed of by *(choose all that apply)*:

- |                                                               |                                                                            |
|---------------------------------------------------------------|----------------------------------------------------------------------------|
| <input type="checkbox"/> Composting on-site <sup>a,b</sup>    | <input type="checkbox"/> Rendering <sup>c</sup>                            |
| <input type="checkbox"/> Composting off-site <sup>a,b,c</sup> | <input type="checkbox"/> Incineration <sup>c</sup>                         |
| <input type="checkbox"/> Burial <sup>c</sup>                  | <input type="checkbox"/> Incineration (energy from waste) <sup>c</sup>     |
| <input type="checkbox"/> Above ground burial <sup>c</sup>     | <input type="checkbox"/> Burning (open/air curtain) <sup>c</sup>           |
| <input type="checkbox"/> Landfill <sup>c</sup>                | <input type="checkbox"/> Burning (mobile gasifier or similar) <sup>c</sup> |

<sup>a</sup> If composting is chosen as method of disposal, composted materials will be monitored by State and/or VS personnel to ensure virus destruction and to identify when material can be turned or removed from the facility.

<sup>b</sup> All composted material must remain on the premises until considered safe to move by State and/or VS personnel. State and/or VS personnel will oversee, monitor, and document this process. Approved composted material may be *(insert disposal method)*:

- Spread on field
- Stored

- Other: \_\_\_\_\_
- N/A

<sup>c</sup> If moving materials off-site, list location here \_\_\_\_\_

◆ **Disposal of manure, feed, and other organic debris and destruction and disposal of contaminated materials that can't be cleaned and disinfected.**

These items will be disposed of by *(choose all that apply)*:

- |                                                               |                                                                            |
|---------------------------------------------------------------|----------------------------------------------------------------------------|
| <input type="checkbox"/> Composting on-site <sup>a,b</sup>    | <input type="checkbox"/> Rendering <sup>c</sup>                            |
| <input type="checkbox"/> Composting off-site <sup>a,b,c</sup> | <input type="checkbox"/> Incineration <sup>c</sup>                         |
| <input type="checkbox"/> Burial <sup>c</sup>                  | <input type="checkbox"/> Incineration (energy from waste) <sup>c</sup>     |
| <input type="checkbox"/> Above ground burial <sup>c</sup>     | <input type="checkbox"/> Burning (open/air curtain) <sup>c</sup>           |
| <input type="checkbox"/> Landfill <sup>c</sup>                | <input type="checkbox"/> Burning (mobile gasifier or similar) <sup>c</sup> |

<sup>a</sup> If composting is chosen as method of disposal, composted materials will be monitored by State and/or VS personnel to ensure virus destruction and to identify when material can be turned or removed from the facility.

<sup>b</sup> All composted material must remain on the premises until considered safe to move by State and/or VS personnel. State and/or VS personnel will oversee, monitor, and document this process. Approved composted material may be *(insert disposal method)*:

- Spread on field
- Stored
- Other: \_\_\_\_\_
- N/A

<sup>c</sup> If moving materials off-site, list location here \_\_\_\_\_

List additional details regarding disposal activities as needed here:

  
  
  
  
  
  
  
  
  
  

**ELIMINATING THE VIRUS FROM THE PREMISES**

All contaminated structures, equipment, vehicles, and surfaces will be cleaned and disinfected following the depopulation/euthanasia of swine on the premises. The responsible party listed above, in consultation with State or VS personnel, will prepare a site-specific cleaning and disinfection plan. State or VS personnel must approve the plan before implementation.

The elements of the site-specific cleaning and disinfection plan include the following; disinfection procedures will be overseen and documented by State and/or VS personnel:

1. Immediately after depopulation/euthanasia of the swine, applying insecticides and rodenticides and removing any debris from around the exterior of the swine houses.
2. Cleaning and disinfecting all vehicles and equipment used in holding, handling, transporting, or that have been in contact with, affected swine or contaminated materials, prior to leaving the premises.

3. Cleaning contaminated structures and equipment. Structures and equipment will be inspected by State or VS personnel to ensure that cleaning has sufficiently removed contaminated materials or substances before a disinfection step is started.
4. Disinfection of structures and equipment will be conducted by: **(select all that apply)**

**Wet disinfection** with an [EPA-registered product labeled for use against ASFV](#): **(highlight or circle all that apply)** *sodium dichloro-s-triazinetrione (Clearon Bleach Tablets, Klorsept, Klorkleen, or Klorkleen 2), sodium chloride/potassium peroxymonosulfate (Virkon S), sodium hypochlorite, citric acid,*

OR

**Fallowing** for a minimum of 180 days<sup>1</sup> after the completion of depopulation/ euthanasia may be an option for premises upon the approval of VS and State personnel. During the fallow period, the premises owner will maintain these conditions:

1. No swine shall be introduced; premises must remain vacant of all swine.
2. No materials or equipment are to be removed prior to the completion of the fallow period; exceptions may be made if proper cleaning and disinfection has been conducted in accordance with VS and State personnel.
3. The affected premises must be adequately fenced to prevent unauthorized access and the incursion of feral swine.
4. Measures are taken to prevent the attraction of wildlife (e.g., access to feed).

Restocking premises prior to the conclusion of the fallow period may result in a restock violation and the resetting of the fallow period. A premises may not restock until approved to do so.

#### REDUCING THE RISK OF REINFECTION

Any significant risk factors for the reintroduction of ASF must be addressed *prior to* the restocking of swine on the premises. If identified risk factors are not addressed, and the premises becomes re-infected with ASF, VS will not provide indemnity funding for infected herds on that premises.

**{Case managers/site managers should list significant risk factors here. Those would include significant biosecurity lapses (to include contact with feral swine), significant rodent or insect activity in the barns, untreated water supplies, garbage feeding, traffic too close to houses (such as rendering, trash trucks, etc.)}**

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<sup>1</sup> The following time period may be adjusted based on evaluation of scientific evidence of ASF viral survivability and resistance in different environmental conditions.

## ENSURING THE PREMISES IS FREE FROM ASF

### 1. 40 Day Downtime

Following depopulation, cleaning and disinfection (virus elimination), the premises will remain free of swine species for at least 40 days (2 **maximum** incubation periods per the World Organization for Animal Health<sup>2</sup>). If a fallow period is chosen for virus elimination, the premises will remain free of swine for 180 days<sup>1</sup>. The producer may request permission to restock after the 40-day post-virus elimination down time requirement is met, OR after the 180-day fallow period requirement is met.

### 2. Restocking

- a. Farms that chose the fallow period option should initially restock with sentinel animals for 40 days and monitor these swine for clinical signs of ASF. Sentinel animals should be tested at least once at the end of the 40-day time period before the premises can fully restock. Diagnostic samples should also be submitted on any sick or dead pigs during this 40-day period. Sentinel pigs found to be infected with ASFV will be depopulated and cleaning and disinfection will need to be repeated in the barns where sentinel animals were placed. (States may have additional requirements added here, based on their ISRPC.)
- b. Farms that complete cleaning and disinfection plus the 40-day down time may use sentinels as described above OR restock fully, while incorporating appropriate post-quarantine and pre-movement ASF surveillance as described in 3, below.
- c. State and VS personnel must concur in writing prior to any restocking activities. If restocking occurs without prior written approval of State and VS officials, this restocking is at the producer's risk; VS will not indemnify previously affected premises that are restocked without prior written approval and subsequently become re-infected.

### 3. Post-Quarantine and Pre-Movement ASF Surveillance

All post-quarantine abnormal mortality within 180 days of quarantine release should be investigated and tested for ASF by State and/or VS personnel. These mortality thresholds are to be used as a guideline; however, any suspicion of ASF should warrant an immediate notification to the State Animal Health Official or Area Veterinarian In-Charge. Abnormal mortality is defined as follows (Select all that apply):

- Suckling pigs:** Excess of 3% mortality (sudden deaths, excluding euthanized animals) in a 24 hour period OR excess of 5% mortality in a 3 day period
- Nursery pigs:** Excess of 1% mortality (sudden deaths, excluding euthanized animals) in 24 hour period OR excess of 2% mortality in 3 day period
- Grower/finisher pigs:** Excess of 1% mortality (sudden deaths, excluding euthanized animals) in 24 hour period OR excess of 2% mortality in 3 day period
- Sows/replacement gilts:** Excess of 0.5% mortality (sudden deaths, excluding euthanized animals) in a 24 hour period OR excess of 0.1% abortions (of total # of sows in the herd) in a 24 hour period OR excess of 10% abortions in a week (of all pregnant sows in the herd that week) OR excess of 4% abortions in 2 weeks (of all pregnant sows in the herd those 2 weeks)

Restocked premises will be subject to pre-movement surveillance requirements as determined by State and VS officials.

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<sup>2</sup> <https://www.oie.int/en/animal-health-in-the-world/animal-diseases/african-swine-fever/>

**OWNER/OPERATOR:**

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**VS INCIDENT COMMANDER** OR  **VS DISTRICT DIRECTOR/AREA VETERINARIAN IN CHARGE:**

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**STATE INCIDENT COMMANDER** OR  **STATE VETERINARIAN:**

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_