



# Quality Assurance Seminar

August 3, 2017

Harvest Hall, Stanislaus County Ag Center



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United States Department of Agriculture



Bellevue, WA September 1, 2016

"The Vote" at the 43<sup>rd</sup> NPIP Biennial

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# 14 Biosecurity Principles

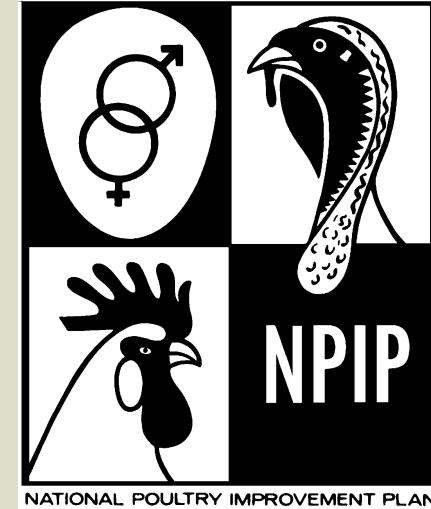
1. Biosecurity Responsibility
2. Training
3. Line of Separation
4. Perimeter Buffer Area
5. Personnel
6. Wild Birds, Rodents, Insects
7. Equipment & Vehicles
8. Mortality Disposal
9. Manure & Litter Management
10. Replacement Poultry
11. Water Supply
12. Feed & Replacement Litter
13. Reporting Morbidity & Mortality
- 14. Auditing**



# NPIP Program Standards

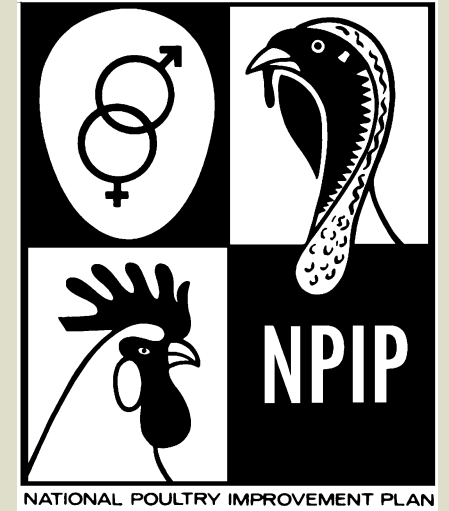
## NPIP 14 Biosecurity Principles

- Effective July 5, 2017
- **#14 Biosecurity Principle Audit**
  - Conducted once every 2 years
  - Based on 'complex-wide'
  - One audit per company
  - Paper audit only
  - 60-90 days to complete



# NPIP #14 Audit

- Not mandatory until USDA APHIS Interim Rule for HPAI Indemnity is final



ie: Final Rule in effect January 1, 2018

- NPIP Biosecurity Principles audit now in effect any time between 2018-2020
- subsequent audits every 2 years based on first audit

# USDA APHIS Interim Rule for HPAI Indemnity

- Effective February 9, 2016
- Clarifies an existing policy that allows for the payment of indemnity for eggs destroyed by HPAI response;
- Provides a formula to allow indemnity payments to be split between poultry and egg owners and their contracted growers; and,
- Requires owners and contractors to provide a **statement** that they had a biosecurity plan in place at the time HPAI was detected in their facilities in order to receive indemnity



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# Exempt Facilities

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USDA  
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## Size Matters

Fewer than:

Bird Type	LPAI (NPIP)	HPAI (Interim Rule)
<b>Layers</b>	75,000 on premises	Raise 75,000/year
<b>Broilers</b>	Slaughter 200,000/week	Raise 100,000/year
<b>Turkeys</b>	Slaughter 2 million/year	Raise 30,000/year
<b>Waterfowl and UGB</b>	Slaughter 50,000/year	Raise 25,000/year
<b>RFR</b>	Raise 25,000/year	Raise 25,000/year

FORMAT

OBJECTS

SCANNED DOCUMENTS

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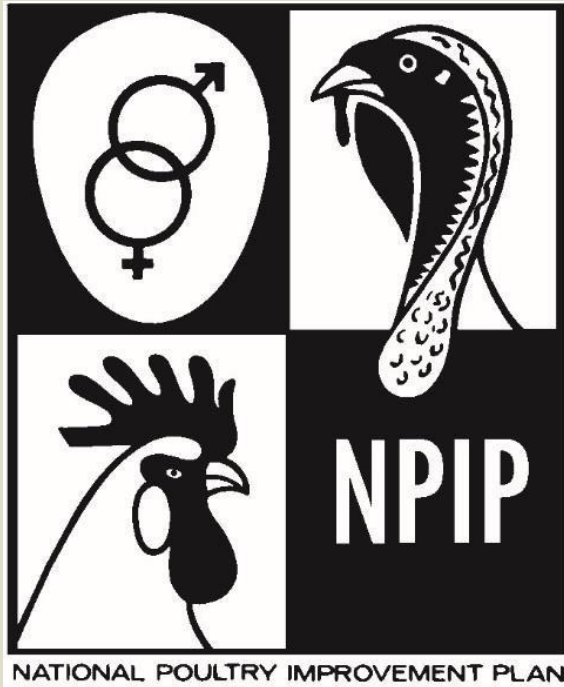
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# Official OSA Training on the NPIP Program Standards Biosecurity Principles Audit



Portland, Maine  
DoubleTree by Hilton Hotel  
Cumberland Room  
May 16-17, 2017

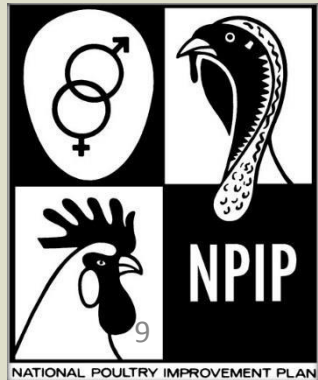


# **Biosecurity Principle #14**

## **Auditing**



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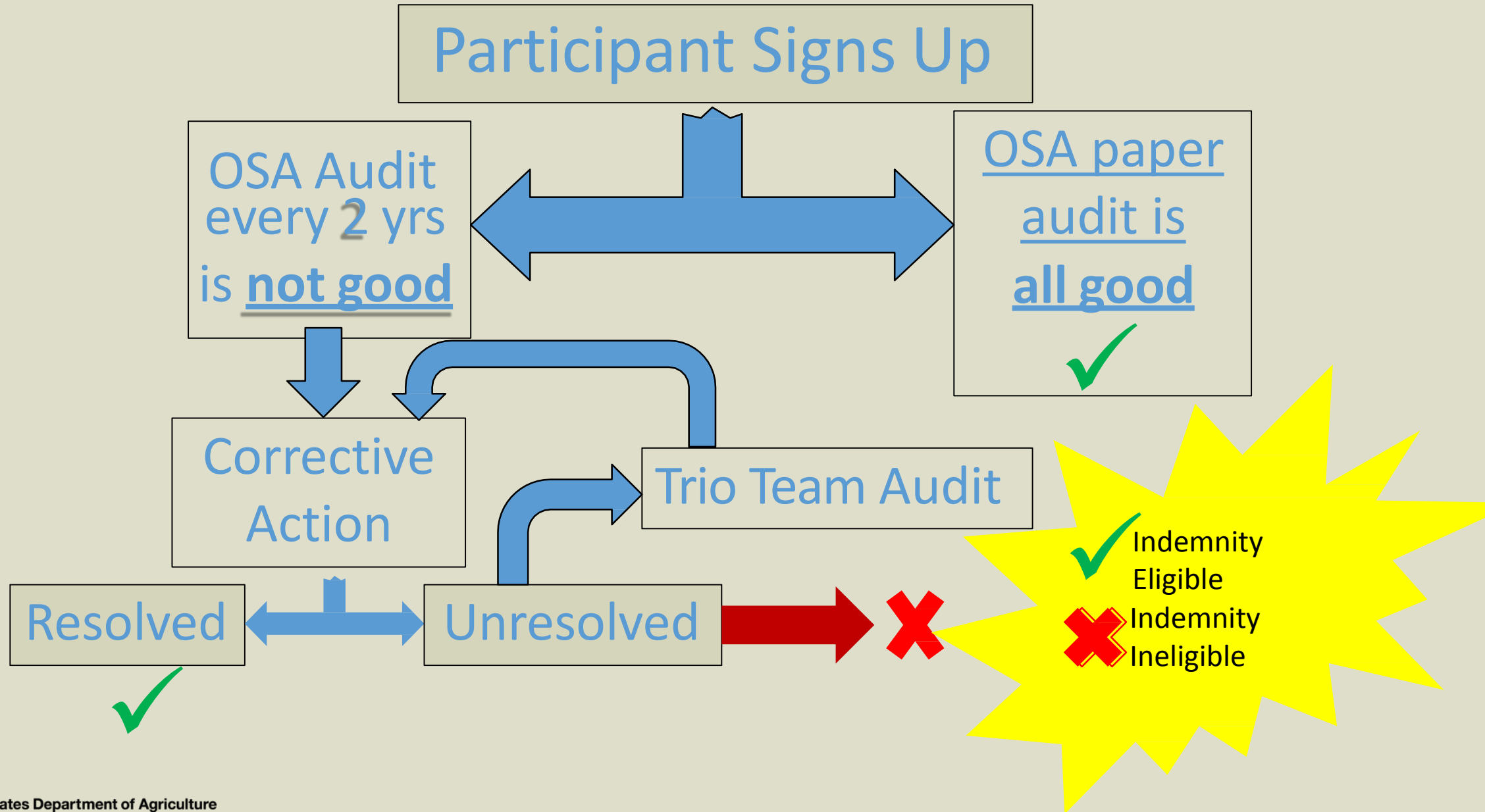
# Biosecurity Principles: Auditing

## (14) Auditing

Auditing of the biosecurity principles is based on flock size as outlined in 9 CFR 53.10. Audits shall be conducted at least once every two years or a sufficient number of times during that period by the Official State Agency to ensure the participant is in compliance. Each audit shall require the biosecurity plan's training materials, documentation of implementation of the NPIP Biosecurity Principles, corrective actions taken, and the Biosecurity Coordinator's annual review to be audited for completeness and compliance with the NPIP Biosecurity Principles. An audit summary report containing satisfactory and unsatisfactory audits will be provided to the NPIP National Office by the OSAs.

Those participants who failed the initial document audit conducted by the NPIP OSA may elect to have a check audit (field audit) performed by a team appointed by National NPIP Office including: an APHIS poultry subject matter expert, the OSA, and a licensed, accredited poultry veterinarian familiar with that type of operation. If these participants seek to be reinstated as being in compliance with the Biosecurity Principles by the NPIP OSA, they must demonstrate that corrective actions were taken following the audit by the team appointed by NPIP.

# Biosecurity Principles Audit Decision Tree

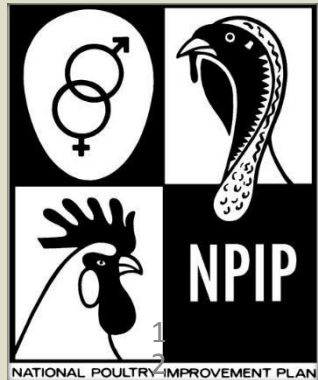


# **Biosecurity Principle #1**

## **Biosecurity Responsibility**



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# Biosecurity Responsibility

## (1) Biosecurity responsibility

The **Biosecurity Coordinator** is responsible for the development, implementation, maintenance and ongoing effectiveness of the biosecurity program. Depending on the type and size of poultry operation, the **Biosecurity Coordinator's responsibility could be at the farm, production site, production complex, or company level.** The Biosecurity Coordinator should be knowledgeable in the principles of biosecurity. The Biosecurity Coordinator, along with the personnel and caretakers on the farms and production sites are responsible for the implementation of the biosecurity program. The Biosecurity Coordinator should review the biosecurity program at least once during each calendar year and make revisions as necessary.

## Audit Guidelines: Biosecurity Responsibility

1. Is there a Biosecurity Coordinator? If so, please provide their name.

2. Is there a site-specific biosecurity plan?

1.Site-specific biosecurity plans can be defined as either farm-specific or complex-wide specific. Supporting documentation that is requested should reflect farm-specific or complex-wide specific as appropriate.

3. Is the Biosecurity Coordinator knowledgeable in the principles of biosecurity?

1.The Biosecurity Coordinator must be able to describe and interpret their company's biosecurity program and how it meets the requirements of the NPIP biosecurity principles.

4. Does the Biosecurity Coordinator review the biosecurity plan at least once during each calendar year and make revisions as necessary?

1.The Biosecurity Coordinator must be able to provide recorded dates in which annual reviews were made and evidence of revisions to the biosecurity plan if any were necessary.

5. Does the biosecurity plan indicate there will be a review by the Biosecurity Coordinator in periods of heightened risk of disease transmission?

1.Documentation of compliance, including evidence of a discussion during periods of heightened risk can take any form (e.g., emails, letters, memos, phone logs, text messages, etc.). It is the responsibility of the Biosecurity Coordinator to clearly define and communicate the “period of heightened risk” in the biosecurity plan.



# **Audit Guidelines: Biosecurity Responsibility**

## **Each site should have a coordinator and a plan**

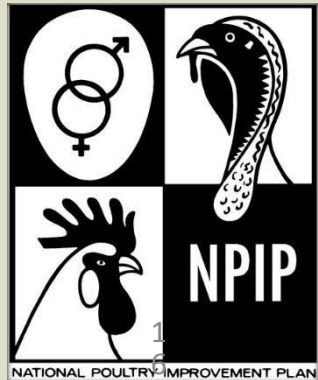
- If an entity has a coordinator and a plan, it can be audited.
- If an entity doesn't have either one, who's responsible for biosecurity? Whoever is responsible should be audited.
- Recommend working with big entities first – they should be responsible, especially if their supply depends on contractors or purchased product. They need to protect that supply.
- A MOU between State OSA's may be needed for multi-state entities, similar to those used for hatchery and laboratory inspections.



# Biosecurity Principle #2 Training



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# Biosecurity Principles: Training

## (2) Training

The biosecurity program should include training materials that cover both farm site-specific procedures as well as premises-wide and/or company-wide procedures as appropriate. All poultry owners and caretakers that regularly enter the perimeter buffer area (PBA) must complete this training. The training must be done at least once per calendar year and documented. New poultry caretakers should be trained at hire. Training records should be retained as stated in Title 9-CFR §145.12(b) and 146.11(e).

## Audit Guidelines: Training

1.Does the biosecurity program include training materials that cover both farm site-specific procedures as well as company and/or complex-wide site-specific procedures, as applicable?

2.Do all poultry owners and caretakers that regularly enter the perimeter buffer area (PBA) complete this training?

2.2.1. Supporting documentation (e.g., training logs, training completion sheets, sign-in sheets, certificates of completion, etc.) should be provided.

2.3. Has the training been completed at least once per calendar year and documented?

2.3.1. Supporting documentation (e.g., training logs, training completion sheets, sign-in sheets, certificates of completion, etc.) should be provided.

2.4. Are new poultry caretakers trained at hire?

2.4.1. Supporting documentation (e.g., training logs, training completion sheets, sign-in sheets, certificates of completion, etc.) should be provided.

5. Are training records retained as stated in Title 9-CFR §145.12(b) and 146.11(e)?

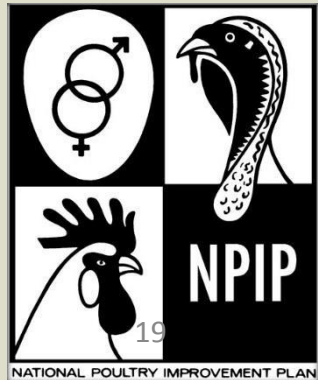
Records must be maintained for at least 3 years.

# **Biosecurity Principle #3**

## **Line of Separation (LOS)**



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# Biosecurity Principles: Line of Separation (LOS)

## (3) Line of Separation (LOS)

The Line of Separation (LOS) is a functional line separating the poultry house(s) and the poultry inside from exposure to potential disease sources. Generally, it is defined by the walls of the poultry building with practical deviations to account for entry points, structural aspects, or outside access areas. The site-specific biosecurity plan should describe or illustrate the boundaries of the LOS and clearly outline the procedures to be followed when caretakers, visitors, or suppliers cross it.

For poultry enclosed in outdoor pens, similar principles for the LOS can be applied for defining and controlling the LOS for each pen. In this circumstance, the walls of the outdoor pens would provide template for defining the LOS to be used when entering or exiting the pens.

For poultry with non-enclosed outdoor access, the LOS is recommended but not required. Further, in an emergency disease state where the transmissible disease risk is heightened, it is highly recommended to enclose all poultry and enforce a LOS.

# Audit Guidelines: Line of Separation (LOS)

3.1. Does the site-specific biosecurity plan describe or illustrate the boundaries of the LOS? If not, please explain.

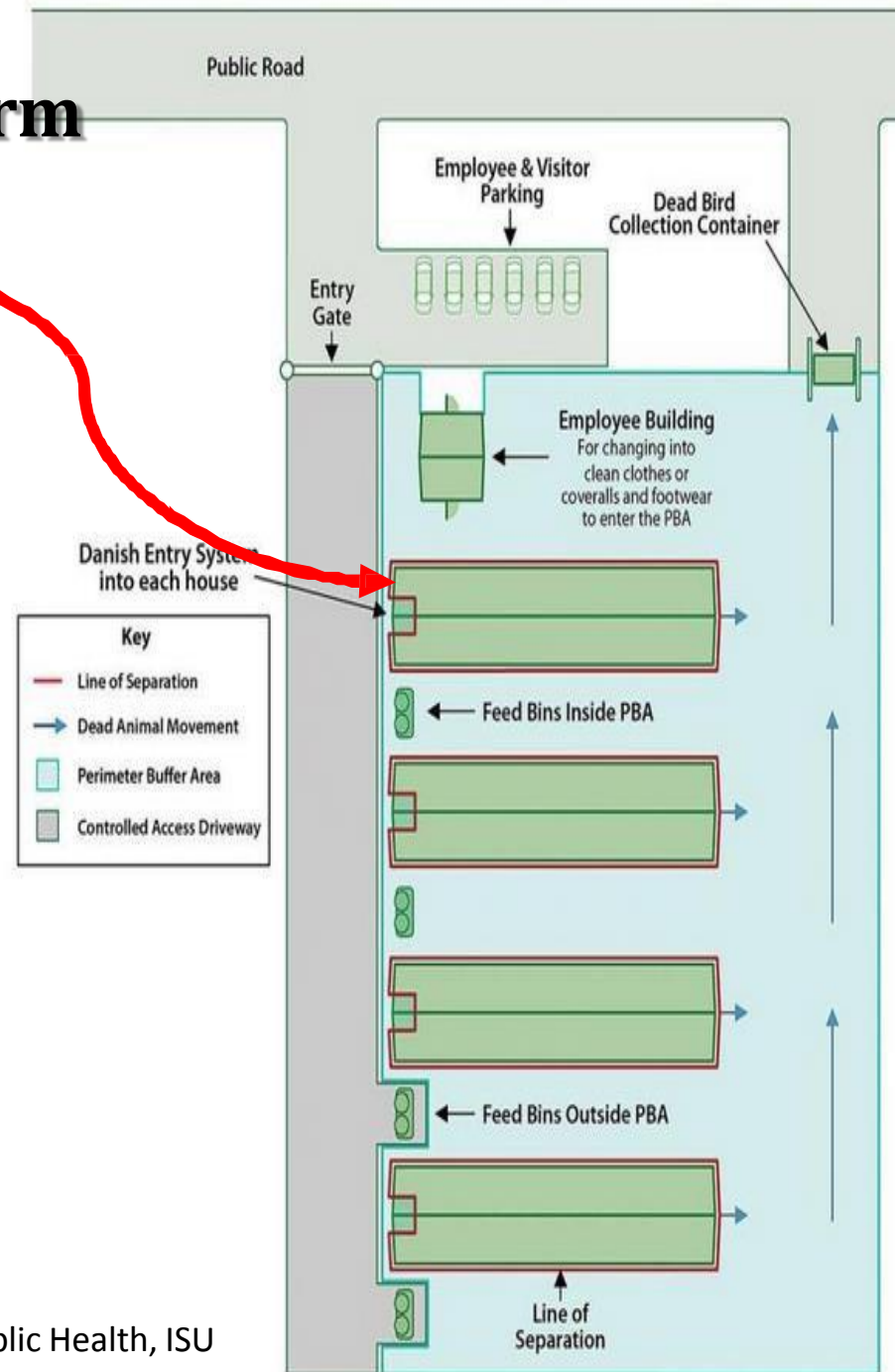
3.1.1. Provide a diagram, map([Google image](#)), and/or a detailed description of the LOS. The LOS is recommended but not required for poultry with unenclosed outdoor access, but is highly recommended during periods of heightened risk.

2. Does the site-specific biosecurity plan clearly outline procedures to be followed when caretakers, visitors, or suppliers cross the LOS?

1. Provide the procedures (e.g., written instructions, signage, training videos, etc.) to be followed by caretakers, visitors or suppliers to cross the LOS.

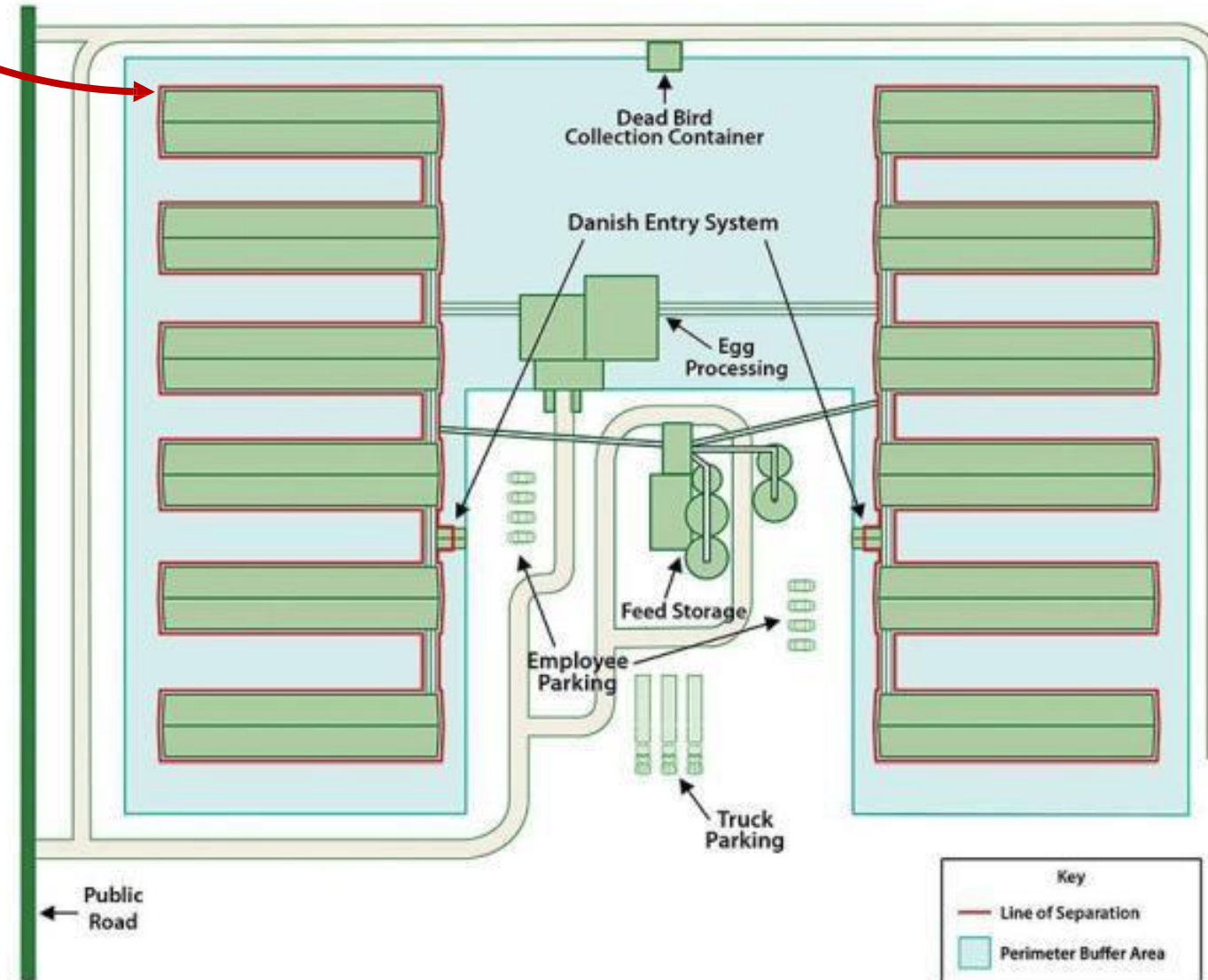
# Broiler / Turkey Farm LOS

- LOS is a functional line separating the poultry house(s) and the poultry inside from exposure to potential disease sources.
- Generally, it is defined by the walls of the poultry building





# LOS – In-Line Table-Egg Complex

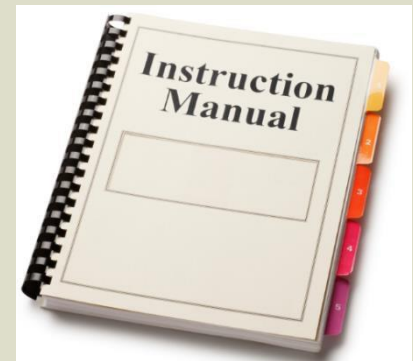


# Line of Separation (LOS) Audit & Guidelines

- 3.1 – Does the site-specific biosecurity plan describe or illustrate the boundaries of the LOS?
  - Yes or No
- If No, please explain.
  - Provide a diagram, map, and/or a detailed description of the LOS.
  - LOS is recommended, but not required for poultry with unenclosed outdoor access, but is highly recommended during periods of heightened risk.

# Line of Separation (LOS) Audit & Guidelines

- 3.2 – Does the site-specific biosecurity plan clearly outline procedures to be followed when caretakers, visitors, or suppliers cross the LOS?
  - Yes or No
  - Provide the procedures (e.g. written instructions, signage, training videos, etc.) to be followed by caretakers, visitors or suppliers to cross the LOS.

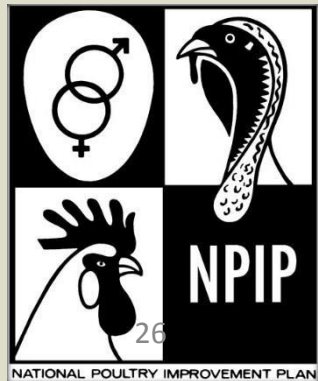


# **Biosecurity Principle #4**

## **Perimeter Buffer Area (PBA)**



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# Biosecurity Principles: PBA

## (4) Perimeter Buffer Area (PBA)

The perimeter buffer area is a functional zone surrounding the poultry houses or poultry raising area that separates them from areas unrelated to poultry production on that site and/or adjoining properties. It is comprised of the poultry houses and poultry raising areas as well as nearby structures and high traffic areas involved in the daily function of the poultry farm. This would usually include but not be limited to such things as feed bins, manure sheds, composting areas, egg rooms, generators, pump rooms, etc. The site-specific biosecurity plan should describe or illustrate the boundaries of the PBA and clearly outline the procedures that caretakers, visitors, or suppliers must follow when entering and leaving the PBA.

# Audit Guidelines: Perimeter Buffer Area (PBA)

1.Does the site-specific biosecurity plan describe or illustrate the boundaries of the PBA?

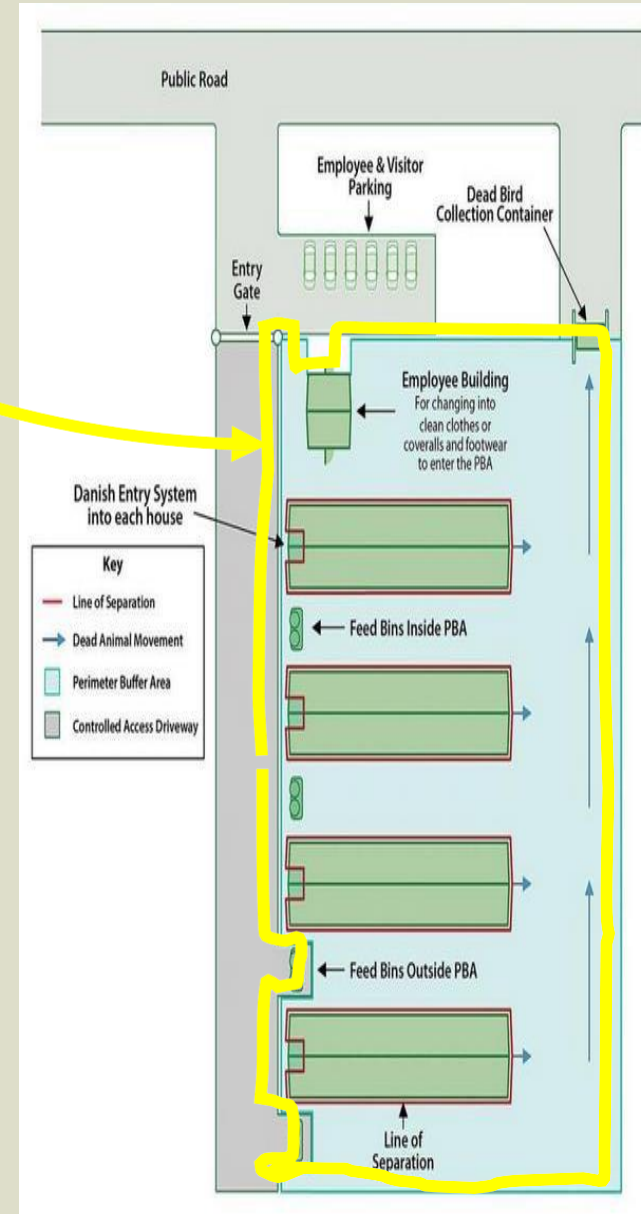
1. Provide a diagram, map, and/or a detailed description of the PBA. Can be a general statement covering companies with multiple farms.

2.Does the site-specific biosecurity plan clearly outline the procedures to be followed by caretakers, visitors, or suppliers when entering and leaving the PBA?

1.Provide the procedures (e.g., written instructions, signage, training videos, etc.) to be followed by caretakers, visitors or suppliers when entering and leaving the PBA.

# Perimeter Buffer Area (PBA)

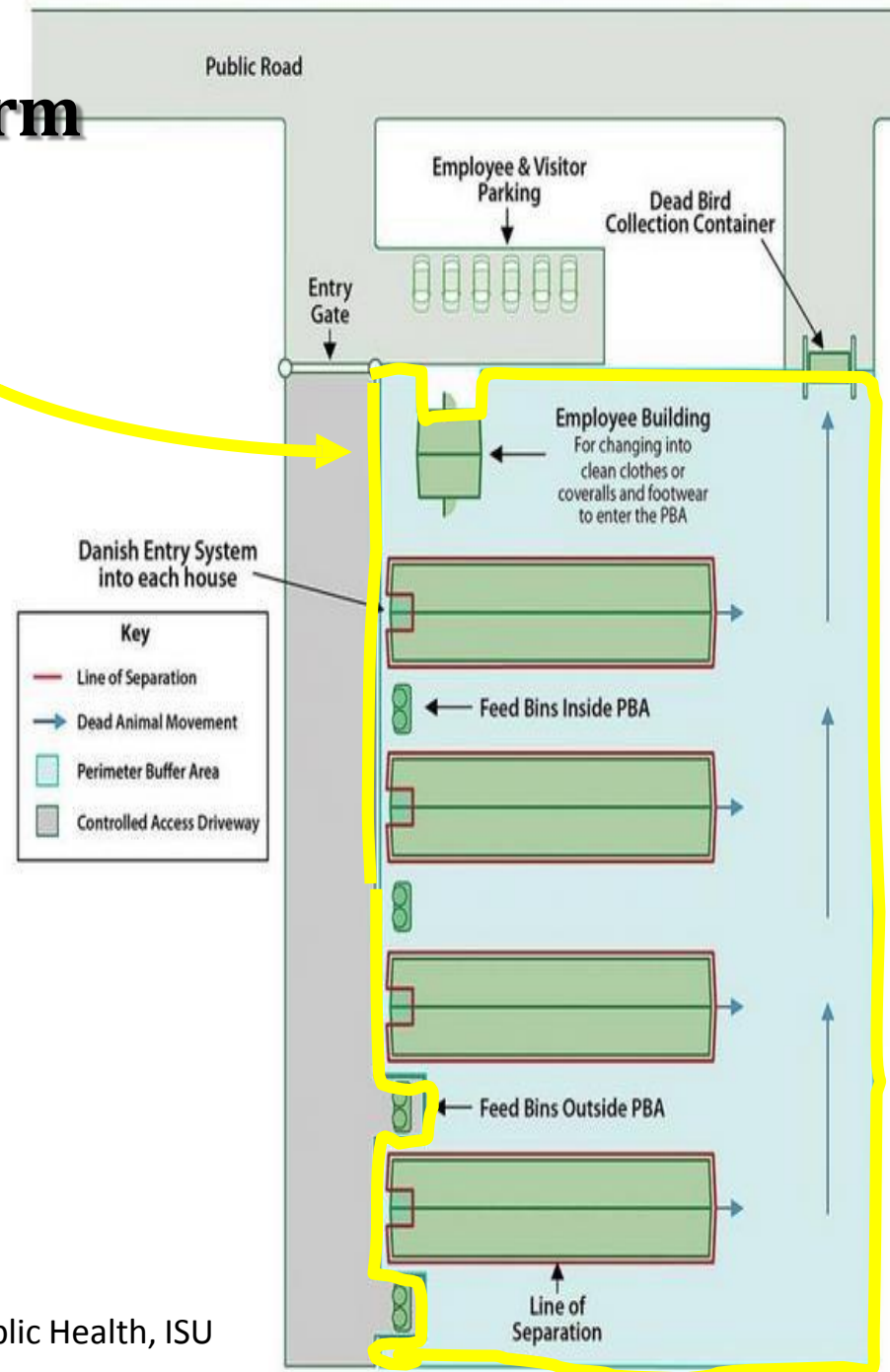
(PBA is outlined in yellow)





# Broiler / Turkey Farm PBA

- Functional zone surrounding the poultry houses or poultry raising area
- High traffic areas involved in the daily function of the poultry farm



# PBA - In-Line Table-Egg Complex

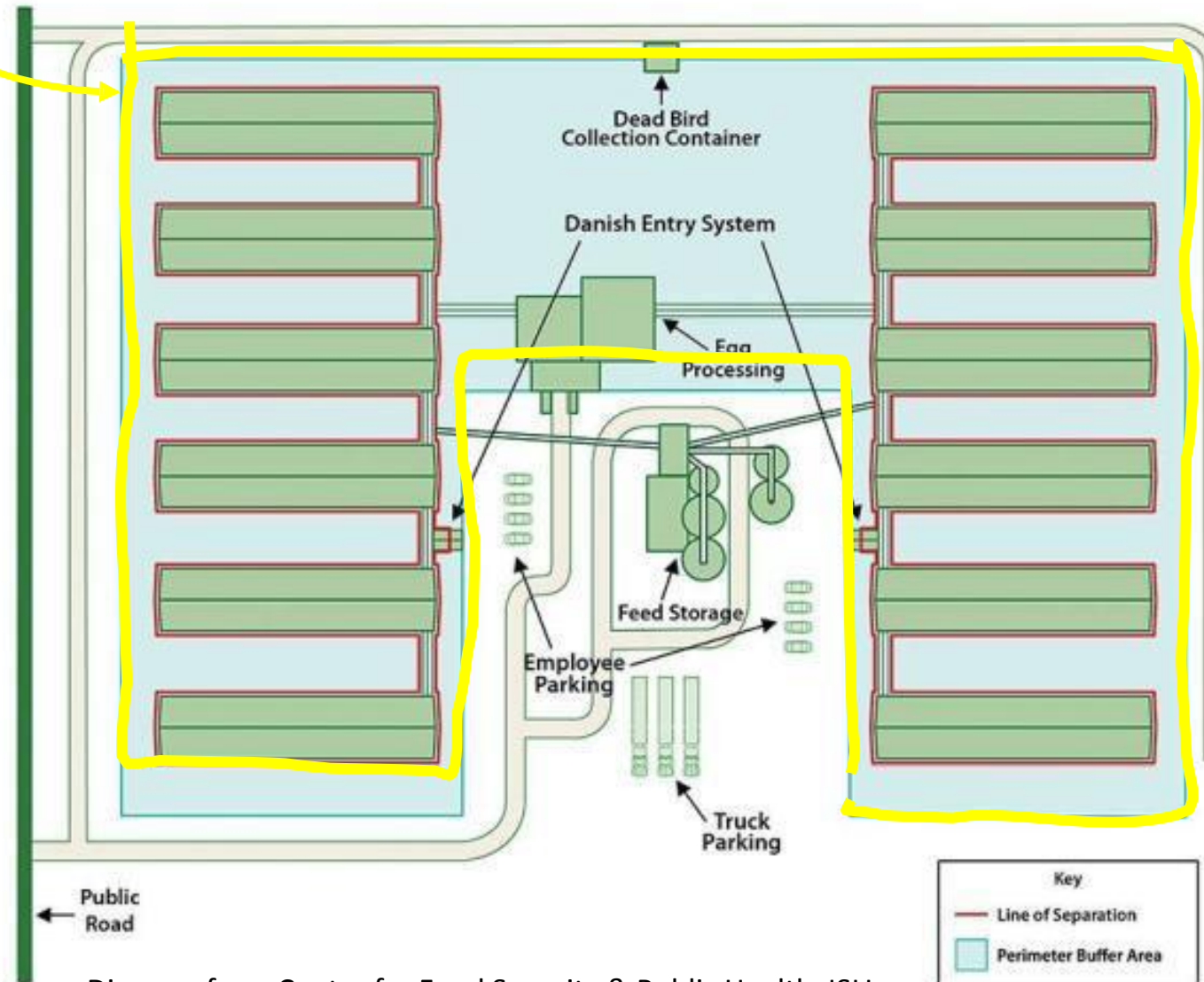


Diagram from Center for Food Security & Public Health, ISU

# Perimeter Buffer Area (PBA) Audit & Guidelines

- 4.1 – Does the site-specific biosecurity plan describe or illustrate the boundaries of the PBA?
  - Yes or No
  - Provide a diagram, map, and/or a detailed description of the PBA.

# Perimeter Buffer Area (PBA) Audit & Guidelines

- 4.2 – Does the site-specific biosecurity plan clearly outline the procedures to be followed by caretakers, visitors, or suppliers when entering and leaving the PBA?
  - Yes or No
  - Provide the procedures (e.g. written instructions, signage, training videos, etc.) to be followed by caretakers, visitors or suppliers when entering and leaving the PBA.

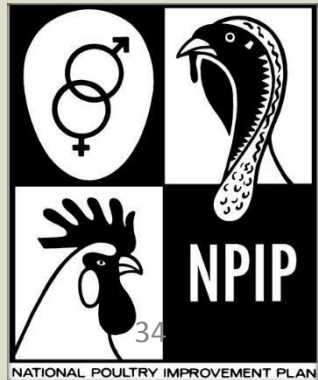


# Biosecurity Principle #5

## Personnel



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# Biosecurity Principles: Personnel

## (5) Personnel

The biosecurity program and/or the site-specific biosecurity plan should include provisions specifically addressing procedures and biosecurity PPE for site-dedicated personnel. The plan should likewise address the procedures and biosecurity PPE for non-farm personnel. The plan should also specify procedures which all personnel having had recent contact with other poultry or avian species should follow before re-entering the PBA.

# Audit Guidelines: Personnel

1.Does the biosecurity program and/or site-specific biosecurity plan include provisions specifically addressing procedures and biosecurity personal protective equipment (PPE) for site-dedicated personnel?

1. PPE should be described in the biosecurity plan for each type of production facility.

2.Does the biosecurity program and/or site-specific biosecurity plan address the procedures and biosecurity PPE for non-farm personnel?

1.PPE should be described in the biosecurity plan for each type of production facility for non-farm personnel.

3.Does the biosecurity program and/or site-specific biosecurity plan specify procedures which all personnel having had recent contact with other poultry or avian species should follow before re-entering the PBA?

1. Supporting documentation (e.g., signed statements, acknowledgement forms, visitor log-in, signed policy documents, etc.) should be provided.

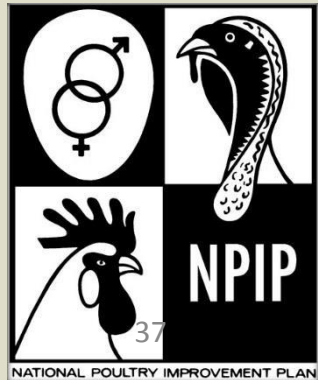


# **Biosecurity Principle #6**

## **Wild Birds, Rodents, Insects**



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# Biosecurity Principles: Pest Control

## (6) Wild Birds, Rodents and Insects

Poultry operations should have control measures to prevent contact with and protect poultry from wild birds, their feces and their feathers as appropriate to the production system. These procedures should be reviewed further during periods of heightened risks of disease transmission. Control programs for rodents, insects, and other animals should be in place and documented.

# Audit Guidelines: Wild Birds, Rodents, and Insects

1.Are there control measures in the biosecurity program and/or site-specific biosecurity plan to prevent contact with and protect poultry from wild birds, their feces and their feathers as appropriate to the production system?

2.Does the biosecurity program and/or site-specific biosecurity plan contain control programs for rodents, insects, and other animals?

3.Are these programs documented?

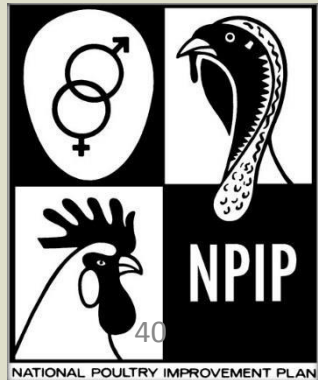
1.Provide description of control programs and examples of the documentation [e.g., log sheets, rodent control company contracts, Best Management Practices (BMP) audits, maintenance records, etc.].

# **Biosecurity Principle #7**

## **Equipment and Vehicles**



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# Biosecurity Principles: Equipment/Vehicles

## (7) Equipment and Vehicles.

The biosecurity plan should include provisions for procedures for cleaning, disinfection, or restriction of sharing of equipment where applicable. Vehicle access and traffic patterns should be defined in the site-specific biosecurity plan.

# Audit Guidelines: Equipment and Vehicles

1.Does the biosecurity program and/or site-specific biosecurity plan include provisions for procedures for cleaning, disinfection, or restriction of sharing of equipment where applicable?

1. Supporting documentation (e.g., written instructions, signage, training videos, etc.) should be provided.

2.Are vehicle access and traffic patterns defined?

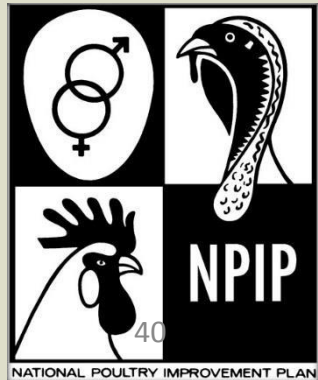
1. Provide a description of vehicle entry access and traffic patterns.

# **Biosecurity Principle #8**

## **Mortality Disposal**



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# Biosecurity Principles: Mortality Disposal

## (8) Mortality Disposal

Mortality should be collected daily, stored and disposed in a manner that does not attract wild birds, rodents, insects, and other animals and minimizes the potential for cross-contamination from other facilities or between premises. It is recommended that **dead bird disposal be on-site\***, if possible. Mortality disposal should be described in the site-specific biosecurity plan.

**\*See CDFA regulations for disposal**



# Audit Guidelines: Mortality Disposal

8.1. Is there a mortality disposal plan?

8.2. Does the mortality disposal plan reference the frequency of removal, storage of mortality, and pest control around mortality storage and disposal areas?

8.2.1. Provide a description of the mortality disposal plan and examples of documentation [e.g., mortality sheets, company contracts, Best Management Practices (BMP) audits, disposal records, etc.].

3. Does the mortality disposal plan address procedures for handling mortality disposal in a way that minimizes the potential for cross-contamination from other facilities or between premises?

1. Supporting documentation should be provided (e.g., written instructions, videos, etc.) for proper handling of mortality to minimize the potential of cross-contamination.

# Is there a mortality disposal plan?

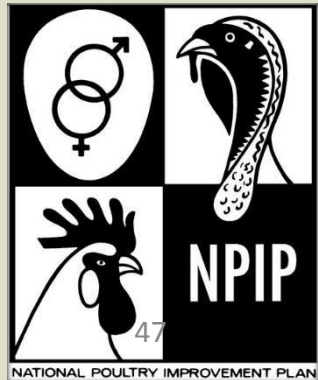
- Unacceptable plans:
  - “Our contractors are responsible for that – it’s in our contracts” – take a look at that portion of the contract – it should then address frequency of removal, storage and pest control.
  - Stating that contractors must comply with applicable regulations will usually not be satisfactory – most regulations target water quality and public health, not biosecurity.
- Has cross-contamination between facilities been considered?  
Any provisions for traffic routing or sanitation of equipment?

# **Biosecurity Principle #9**

## **Manure and Litter Management**



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# Biosecurity Principles: Manure/Litter

## (9) Manure and Litter Management

Manure and spent litter should be removed, stored and disposed of in a manner to prevent exposure of susceptible poultry to disease agents. Onsite litter and manure storage should limit attraction of wild birds, rodents, insects, and other animals.

# Audit Guidelines: Manure and Litter Management

1. Is the manure and spent litter handled in a manner that limits the spread of infectious disease?

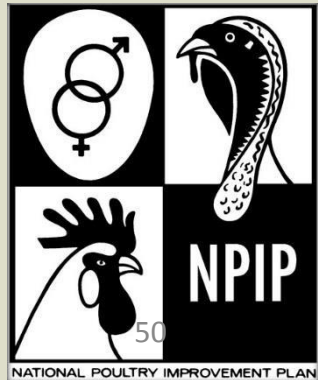
1. Procedures (e.g., written instructions, manure/litter handling log sheets, protocols, permits, guidance for contractors, etc.) should be provided showing how disease risk from manure and litter handling has been addressed.

# **Biosecurity Principle #10**

## **Replacement Poultry**



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# Biosecurity Principles: Replacement Poultry

## (10) Replacement Poultry

Replacement poultry should be sourced from health-monitored flocks which are in compliance with NPIP guidelines. They should be transported in equipment and vehicles that are regularly cleaned, disinfected and inspected. Biosecurity protocols should be in place for equipment and personnel involved in the transport of replacement poultry.

## Audit Guidelines: Replacement Poultry

1. Is replacement poultry sourced from flocks which are in compliance with NPIP provisions and program standards?

1. Replacement poultry is defined as poultry from hatch to maturity intended to become laying hens or breeders.

2. Provide supporting documentation (e.g., VS 9-2 form, VS 9-3 form and/or NPIP hatchery production records) showing that source flocks are active and compliant participants in the NPIP.

2. Is replacement poultry transported in equipment and vehicles that are regularly cleaned, disinfected and inspected?

1. Supporting documentation (e.g., written instructions, wash station reports and/or logs, inspection reports, invoices, etc.) should be provided. The biosecurity plan should be followed as written and clearly define “regular cleaning.”

3. Are biosecurity protocols in place for equipment and personnel involved in the transport of replacement poultry?

1. Supporting documentation [e.g., signed statements, acknowledgement forms, visitor log-in sheets, policy documents, standard operating procedures (SOPs), Best Management Practices (BMPs), etc.] should be provided for personnel involved in the transport of replacement poultry.

2. Supporting documentation [e.g., written instructions, protocols, procedures, training videos, standard operating procedures (SOPs), Best Management Practices (BMPs), etc.] should be provided for equipment involved in the transport of replacement poultry.

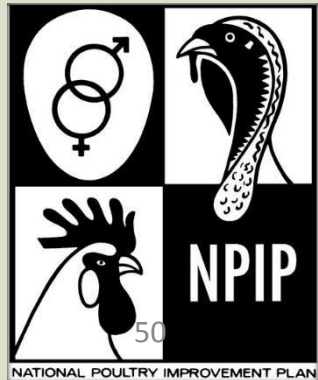


# **Biosecurity Principle #11**

## **Water Supplies**



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# Biosecurity Principles: Water Supplies

## (11) Water Supplies

It is recommended that drinking water or water used for evaporative cooling be sourced from a contained supply such as a well or municipal system. If drinking water comes from a surface water source, water treatment must be used to reduce the level of disease agents. If surfaces have been cleaned or flushed with surface water, subsequent disinfection should be employed to prevent disease transmission. If water treatment is not possible, a risk analysis should be performed to determine actions needed to mitigate risks.

## Audit Guidelines: Water Supplies

1. Is drinking water or water used for evaporative cooling sourced from a contained supply such as a well or municipal system?

2. If water comes from a surface water source, is water treatment used to reduce the level of disease agents?

11.2.1 If yes, describe the water treatment used.

3. If water treatment is not possible, is a risk analysis performed to determine actions needed to mitigate risks?

1. The Biosecurity Coordinator should provide evidence that the risk of an untreated system has been considered and demonstrate steps to mitigate that risk if feasible.

2. Risk assessment should have considered risks from the water supply. This guidance does not require a peer-reviewed professional risk assessment to be performed.

4. If surfaces have been cleaned or flushed with surface water, is subsequent disinfection employed to prevent disease transmission?

1. If surfaces were cleaned or flushed with surface water and subsequent disinfection was employed, a description of the subsequent disinfection and/or supporting documentation should be provided (e.g., invoices for chemicals used and purchased treatment equipment, treatment plans, etc.)

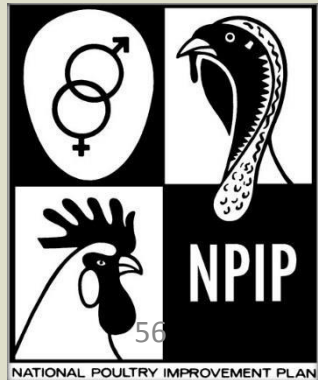
2. If surfaces were cleaned or flushed with surface water and subsequent disinfection was not employed, see item 11.3.2 above.

# **Biosecurity Principle #12**

## **Feed and Replacement Litter**



**United States Department of Agriculture**



# Biosecurity Principles: Feed & Litter

## (12) Feed and Replacement Litter

Feed, feed ingredients, bedding, and litter should be delivered, stored and maintained in a manner that limits exposure to and contamination by wild birds, rodents, insects, and other animals.

Feed spills within the PBA (outside of the LOS) should be cleaned up and disposed in a timely fashion.

# Audit Guidelines: Feed & Replacement Litter

1. Is feed, feed ingredients and litter stored and maintained in a manner that limits exposure to and contamination by wild birds, rodents, insects, and other animals?

1. Guidance applies to the feed ingredients and litter which are under the direct control of the entity being audited. A description or examples (e.g., written instructions, feed or replacement litter handling, log sheets, protocols, permits, guidance for contractors, etc.) should be provided showing how exposure to and contamination by wild birds, rodents, insects, and other animals is limited. Occasional exceptions may be necessary (e.g., seasonal storage, acts of God, etc.).

2. Guidance applies to the feed ingredients and litter which are under the direct control of the entity being audited.

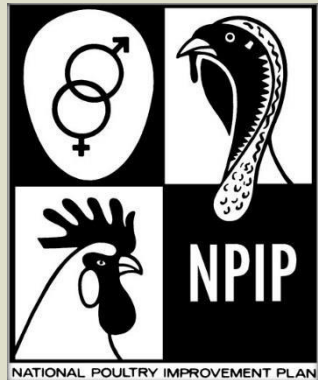
2. Does the biosecurity plan address feed spills within the PBA (outside of the LOS)?

# **Biosecurity Principle #13**

## **Reporting Elevated Morbidity and Mortality**



**United States Department of Agriculture**



# Biosecurity Principles: Morbidity/Mortality

## (13) Reporting of Elevated Morbidity and Mortality

Elevation in morbidity and/or mortality above expected levels, as defined by the biosecurity plan, should be reported as required in the site-specific biosecurity plan and appropriate actions should be taken to rule out reportable disease agents.



# Audit Guidelines: Reporting Increased Morbidity/Mortality

1.Does the biosecurity plan address elevated morbidity and/or mortality above expected levels?

13.1.1 A description of the actions and/or documentation (e.g., evidence of investigation, tracking graphs, mortality/morbidity patterns, case reports, mortality logs, etc.) used to monitor morbidity and/or mortality should be provided. The Biosecurity Coordinator is responsible for communicating what constitutes elevated morbidity and/or mortality in the biosecurity plan. ie: Can be a sampling of mortality logs from 3 farms over a 2-week period

2.Is there a plan to report to responsible authorities and take appropriate action should you suspect and need to rule out reportable disease agents?

1.Provide the written procedure to report and take appropriate actions when disease agents are suspected. The Biosecurity Coordinator is responsible for providing the written procedures.

2.The written procedure should identify the responsible reporting authorities. The Biosecurity Coordinator is responsible for clearly communicating who the responsible authorities are.

# Questions?

Write down your questions!

**Q & A with Dr. Denise Brinson**  
**NPIP Senior Coordinator**

**1:00 pm**

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