

## Section 4.3

# Feed Quality and Storage

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### REFERENCED IN THIS SECTION:

Number/ Identifier	Name	Importance
 <b>RECORDS</b>		
R-2	Incident Report	Mandatory
R-4	Monitoring Record	
R-L	Farm Plan	Highly recommended

## SECTION 4.3

### FEED QUALITY AND STORAGE

#### REQUIREMENTS

1. Farm areas used for storing and mixing feed and feed ingredients must be:
  - a. clean and adequately maintained
  - b. kept dry
  - c. free of easily detectable bird and animal feces (organic materials)
  - d. free of chemical contaminants (e.g., pesticides, cleaning and disinfection products, oil, fertilizer).
  - e. free of foreign material (physical hazards (e.g., metal, screw, etc)).
2. Feed and feed-ingredient bins, distribution lines and feed-transfer systems must all be clearly identified.

#### RATIONALE

- a. Feed and feed ingredients stored inadequately can become contaminated by animal or bird feces. These can introduce pathogenic organisms or serve as a base for the growth of mold and other fungi.
- b. Identifying distribution lines and silos helps to prevent errors during the manufacturing or distribution of feed and feed ingredients.
- c. Feed and feed ingredients can be contaminated by inadequately stored agricultural chemicals, which can be harmful to pigs and pose a risk to food safety.
- d. Birds, rodents and pets (e.g., cats and dogs) can transmit
  - i. enterobacteria (e.g., *Salmonella*) responsible for gastroenteritis, and
  - ii. parasites (e.g., *Toxoplasma* responsible for *toxoplasmosis*).(see Sections on Pest Management and Domesticated Animals for further information)

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#### GUIDANCE

- a. Chemical products should be used and stored according to the manufacturer's instructions, completely separate from feed and water equipment and activities.
- b. It is crucial to keep all types of chemical contaminants away from the pigs to avoid consumption by the pigs and, consequently, the contamination of the meat.
- c. A plan indicating the location of buildings, feed bins and silos should be provided to suppliers Farm Plan Record (R-L).
- d. Inadequate storage or poor handling of feed can result in contamination or cross-contamination with drug residue, chemical products, pathogens, mycotoxins, and animal feces. It is important to cover feed bins and carts to minimize access by birds and rodents.

## AUDIT QUESTIONS

Q#	Audit Questions and Interpretations	Verification			
		Compliant	NC-Minor	NC-Major	N/A
	Verify that the feed and feed ingredients are stored and mixed in an environment that is: <ol style="list-style-type: none"> <li>clean and adequately maintained</li> <li>kept dry</li> <li>free of easily detectable bird and animal feces (organic materials)</li> <li>free of chemical contaminants (e.g., pesticides, cleaning and disinfection products, oils, fertilizers)</li> <li>free of foreign materials (physical hazards (eg., metal, screw,etc))</li> </ol>				
		<b>Full Validation:</b> > observation			
Q4.3.1	<b>Are the farm areas used for storing and mixing feed and/or feed ingredients:</b>				
	a. clean and adequately maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b. kept dry?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c. free of easily detectable bird and animal feces (organic materials)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	d. free of chemical contaminants (e.g., pesticides, cleaning and disinfection products, oils, fertilizers)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	e. free of foreign materials (physical hazards (eg., metal, screw,etc))?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Verify that all of the following items are clearly identified: <ol style="list-style-type: none"> <li>feed and feed ingredient bins</li> <li>feed distribution and transfer lines</li> <li>other feed transfer systems (e.g., switches, carts, pails)</li> </ol>				
		<b>Full and Partial Validation:</b> > observation > interview			
Q4.3.2	<b>Are all of the following items clearly identified:</b>				
	a. feed and feed ingredient bins?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. feed distribution and transfer lines?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. other feed transfer systems (e.g., switches, carts, pails)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

N/A = not applicable



## LEVELS OF COMPLIANCE – EXAMPLES

### COMPLIANT

- › Farm storage and mixing feed areas meet requirements.

### MINOR NON-COMPLIANCE – Not applicable

### MAJOR NON-COMPLIANCE **Timeline: 60 days**

- › Farm storage and mixing feed areas are not clean and adequately maintained.
- › Farm storage and mixing feed areas are not kept dry.
- › Farm storage and mixing feed areas are significantly contaminated by animal or bird feces.
- › Farm storage and mixing feed areas are also used to store chemical products.
- › Farm storage and mixing feed areas are not free of foreign materials.
- › Feed bins, feed distribution and transfer lines, and other feed transfer systems are not all clearly identified.



## DEVIATION MEASURES

- › If farm areas used for storing and mixing feed and feed ingredients are not kept clean and free from contaminants, the designated personnel must ensure those areas are kept clean, dry, free of significant contamination from bird or animal feces, and free of chemical contaminants and foreign materials.
- › If the silos, feed bins, feed lines are not clearly identified, the designated person must ensure all feed storage and feed-transfer systems are clearly identified.

Complete record R-2 Incident Report and R-4 Monitoring Record.