











FOOD SAFETY PREVENTIVE CONTROLS ALLIANCE



Version 1.1 – 2017











Participant Manual

FSPCA PREVENTIVE CONTROLS FOR ANIMAL FOOD

Training Curriculum

Version 1.1 – 2017

Disclaimer

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The information provided by the FSPCA will vary in applicability to each food manufacturer. It is not possible for the FSPCA training curriculum to address every situation. Companies should implement the practices and programs that will function best to produce safe foods based on the nature of their individual operations. FSPCA materials do not outline the only approach to developing and implementing a Food Safety Plan. Companies can follow any approach that satisfies the requirements of the applicable statutes and regulations related to FSMA. The information provided by FSPCA does not create binding obligations for the Food and Drug Administration or industry.

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Developed by the



Version 1.1 contains changes to address technical amendments and corrections published by FDA, and editorial corrections identified in version 1.

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The FSCPA Animal Food Sub-Committee, Animal Food Editorial Committee, and especially the Animal Food Editor Team, made significant contributions of time and expertise in developing the Food Safety Preventive Controls Alliance training curriculum and supporting documents since its inception in 2012. Affiliations while work was in progress are noted.

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Hazard Analysis and Preventive Controls for Animal Food Training

The Food Safety Preventive Controls Alliance developed this training curriculum in Food Safety Preventive Controls compliant with the FDA's Current Good Manufacturing Practice, Hazard Analysis, and Risk-Based Preventive Controls for Food for Animals regulations. For the most current course information, please consult: http://www.iit.edu/ifsh/alliance/







This publication was developed by the Food Safety Preventive Controls Alliance (FSPCA) and was supported, in part, by a grant from the Food and Drug Administration to the Illinois Institute of Technology's Institute for Food Safety and Health. The views expressed herein do not necessarily reflect the views of these organizations. Direct all inquiries to the FSPCA at fspca@iit.edu

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PREFACE. Introduction to Course



Slide 1

The Current Good Manufacturing Practice, Hazard Analysis, and Risk-based Preventive Controls for Food for Animals regulation (hereafter referred to as the Preventive Controls for Animal Food, or PCAF rule) can be found in Title 21 of the Code of Federal Regulations (CFR) Part 507 (21 CFR part 507). The Preventive Controls for Animal Food rule is intended to ensure safe manufacturing, processing, packing, and holding of animal food products in the United States.

Disclosure

Although I attended the FSPCA Lead Instructor training:

- Lead Instructors are not certified, licensed, accredited, qualified, registered, sanctioned, authorized, recognized, endorsed, or approved by the FSPCA;
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Slide 2

It should be noted that the instructor(s) of this course have attended the FSPCA Lead Instructor training, but:

- 1. Lead Instructors are not certified, licensed, accredited, qualified, registered, sanctioned, authorized, recognized, endorsed, or approved by the FSPCA;
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Food Safety Preventive Controls Alliance

- The FSPCA Preventive Controls for Animal Food course is the "standardized curriculum" recognized by FDA
- Successfully completing this course is one way to meet the requirements for a Preventive Controls Qualified Individual.



Slide 3

The PCAF regulation requires that certain activities must be completed by a *Preventive Controls Qualified Individual* who has "successfully completed training in the development and application of risk-based preventive controls at least equivalent to that received under a standardized curriculum recognized as adequate by FDA or be otherwise qualified through job experience to develop and apply a food safety system." This is the standardized curriculum recognized by FDA and was designed by regulatory, academic, and industry professionals as part of the Food Safety Preventive Controls Alliance. This course is one way to meet the requirements to be a *Preventive Controls Qualified Individual*.

Course Objectives

Through successful completion of this course, you will:

- Meet training requirements for a Preventive Controls Qualified Individual under the Preventive Controls for Animal Food rule.
- Distinguish between Current Good Manufacturing Practices (CGMPs), other prerequisite programs, and preventive controls and where they fit into the regulatory framework.
- Understand the hazard analysis process and resources to help conduct an analysis.
- Learn concepts needed to build a Food Safety Plan.



Slide 4

The course will help participants meet the training requirements for a *Preventive Controls Qualified Individual*. Upon successful completion of the course, participants will be able to distinguish between Current Good Manufacturing Practices (CGMPs), other prerequisite programs, and preventive controls and understand how they fit into the regulatory framework so that hazards are adequately controlled. The course will also help participants understand the hazard analysis process and how to use available resources to conduct a thorough analysis. The course's final outcome is to learn concepts needed to build a Food Safety Plan.

What is Not Intended by this Course?

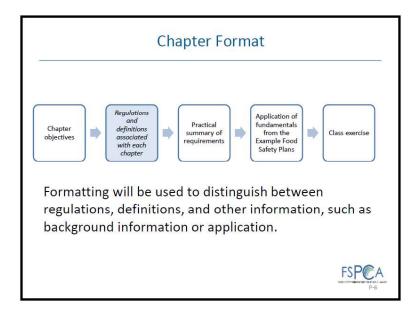
- A complete Food Safety Plan for individual facilities will not be developed during this course.
- · Focus should not be on 'how to pass an inspection.'
 - Instead, concentrate on the concepts of implementing a food safety plan, which will improve communication of the facility's food safety system to:
 - o Suppliers of raw materials or ingredients
 - Customers of finished product
 - Employees
 - Regulatory authorities



Slide 5

While this course will accomplish the objectives laid out in Slide P-4, it is also important for participants to know what is not intended by this course. While the course will teach the concepts of how to develop and implement a Food Safety Plan, participants will not be developing a plan for their own facility in this course. The process of developing a Food Safety Plan typically takes multiples days or weeks, and usually requires input from a number of individuals within the facility and within the business. Instead, this course will help teach the requirements for a Food Safety Plan and will lay out how some of those requirements may be applied through different examples.

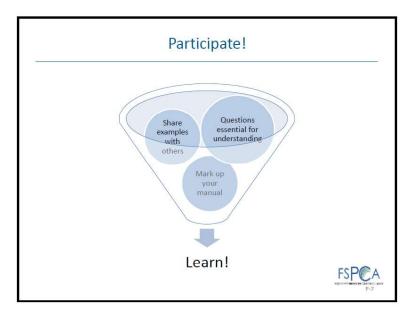
In addition, this course is NOT intended as a path for 'how to pass a FSMA inspection.' Participants should approach the course as a way to learn and implement the concepts of the *Preventive Controls for Animal Food* rule. Fulfilling the requirements outlined in the rule is certainly important to ensuring regulatory compliance, but it also leads to more thorough communication of a facility's food safety system with suppliers of its ingredients or raw materials, consumers purchasing or using its animal food, and new or continuing employees charged with safely manufacturing, processing, packing, or holding its animal food.



Slide 6

In general, the format of the individual chapters in this curriculum are divided into five parts. There are exceptions to this format, but for the most part, chapters are divided into the following five parts:

- 1. Objectives. These provide direction for the primary concepts participants should take away from each section.
- 2. Relevant regulations and definitions. A summary of the relevant regulations and definitions is provided at the start of each chapter. Note that the full regulation is provided as Appendix 1. In addition, a summary of relevant acronyms is provided as Appendix 2. Reviewing the regulatory language and definitions relevant to each chapter will help provide context. Whenever regulatory language or definitions from the rule are used in this training, they are designated by slides having a shaded box that will be blue if printed in color and *italicized* font.
- 3. Practical summary of requirements. These slides will provide examples of approaches that may be used to reach the requirements of the regulation. It is important to note that the industry good practice examples and different approaches provided throughout the course are optional, and do not necessarily represent policy or requirements.
- 4. Application of fundamentals. Examples from two example Food Safety Plans have been constructed to help illustrate concepts of application. These examples are solely examples that are based on fictional facilities, and are not necessarily applicable to other facilities. However, they are intended to help participants understand the concepts utilized in the curriculum.
- 5. Follow-up exercise. To help participants understand how the concepts may be applied, these exercises have been designed to apply concepts learned during the lecture. They may be completed in groups or individually. The training exercise workbook is a separate document.



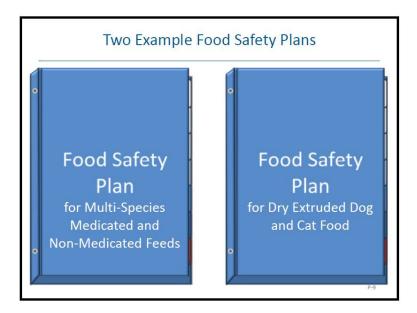
Slide 7

Different individuals have different learning styles. While some may be able to absorb all that is needed by reading the *Preventive Controls for Animal Food* rule or listening as the rule is described, the nuances and requirements are easier for other participants to understand through a dialogue. That means that questions from participants are essential for understanding the course material, and they are encouraged at any time. Participants should share examples they may have had regarding the implementation of similar concepts with others, and take full advantage of the exercises. Finally, they should not be afraid to write in the manual. The manual is for participants to take home after the training, so writing in the margins, highlighting, and making notes as needed is encouraged to remind participants of key components. All these may be useful ways to help learn and apply the concepts when the participants are back at their facilities.

Number	Title	
1	Regulatory Overview and Introduction to the Rule	
2	Current Good Manufacturing Practice	
3	Animal Food Safety Hazards	
4	Overview of the Food Safety Plan	
5	Hazard Analysis and Preventive Controls Determination	
6	Preventive Control Management Components	
7	Process Controls	
8	Sanitation Controls	
9	Supply-Chain Applied Controls	
10	Recall Plan	
Appendix 1	Preventive Controls for Animal Food Rule	
Appendix 2	Acronyms and Abbreviations Reference	
Appendix 3	Example Food Safety Plan	

<u>Slide 8</u>

Chapters 1 through 10 will be presented as lectures in this training, and Appendices 1 through 3 have been provided so participants can refer to the detailed information during this course. The chapters will cover all the necessary components that one must understand to successfully write and implement a Food Safety Plan. In addition to the appendices already described, Appendix 3 contains an abridged example animal Food Safety Plan that is discussed throughout the training. The Food Safety Plans are described in more detail on the next slide. However, it is important to note that these are abridged plans and not representative of all components or required length.



Slide 9

As stated, this curriculum has examples from two different Food Safety Plans: 1) one from a commercial feed mill that manufactures animal food for dairy, beef, sheep, swine, poultry, and equine species, and 2) one from a facility that manufactures dry extruded dog and cat food. The two Food Safety Plans shown throughout the curriculum are incomplete plans because the goal is to demonstrate key concepts, not to provide completed plans. The example plan for dry extruded dog and cat food is included as Appendix 3 so participants can see the potential layout of a Food Safety Plan.

Note - These are Just Examples

- · Each facility has different considerations.
 - Examples used throughout this curriculum are just that examples.
 - Some facilities may have hazard analyses, hazard control strategies, and Food Safety Plans similar to those shown within this curriculum.
 - Other facilities may have hazard analyses and controls with different outcomes or Food Safety Plans with different formats.
 - As long as all required components are present and applied appropriately, the format and specific content of Food Safety Plans may vary widely.



Slide 10

As previously mentioned, the example Food Safety Plans used throughout this curriculum are just examples. Each facility has different considerations. Some facilities may have hazard analyses, hazard control strategies, and Food Safety Plans similar to those shown within the curriculum. Other facilities may have different outcomes following their hazard analysis and selection of hazard control strategies, or their Food Safety Plans may have different formats than those shown in this curriculum. As long as all the required components of the *Preventive Controls for Animal Food* rule are present and applied appropriately, the format and the specific content of the Food Safety Plans may vary widely.

FSPCA Contact Information

If you have any questions, please contact the FSPCA at

fspca@iit.edu

or or visit the FSPCA website at

http://www.iit.edu/ifsh/alliance

for resources on preventive controls and information on FSPCA activities.



Slide 11

If participants have questions, they can contact the Food Safety Preventive Controls Alliance at FSPCA@iit.edu or visit the website at the address listed on the slide. This website has a number of resources on preventive controls and information on FSPCA activities.

<u>NOTES</u>

Preface

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CHAPTER 1. Regulatory Overview



Slide 1

As a reminder, this course is one way to meet the requirements to be a *Preventive Controls Qualified Individual*. The course will help participants distinguish between Current Good Manufacturing Practices (CGMPs), other prerequisite programs, and preventive controls and understand how they fit into the regulatory framework so that hazards are adequately controlled. The course will also help participants understand the hazard analysis process and how to use available resources to conduct a thorough analysis. The course's final outcome is to learn concepts needed to build a Food Safety Plan.

Participants will not walk away from this course with a completed Food Safety Plan for a specific facility. The course will discuss different examples as a way to help participants understand core concepts. This course is to help participants understand how to write and implement the required components of a Food Safety Plan as a part of a larger food safety system, not to write a specific plan. Development of the Food Safety Plan for a specific facility likely needs to be done with consultation of the facility's food safety team and may take weeks to complete.

Chapter 1

Objectives for Regulatory Overview and Introduction to the Rule

In this chapter, you will develop an awareness of:

- The requirements of 21 CFR Part 507 Current Good Manufacturing Practice, Hazard Analysis, and Risk-Based Preventive Controls for Food for Animals.
- · Learn the requirements of the following subparts:
 - Subpart A General Provisions
 - Subpart D Withdrawal of a Qualified Facility Exemption
 - Subpart F Requirements Applying to Records That Must be Established and Maintained
- Note that subparts B, C, E will be covered more in depth in other chapters.



Slide 2

In this chapter, participants will develop an awareness of the requirements of the *Preventive Controls for Animal Food* rule, learn some background information on the Food Safety Modernization Act (FSMA) and the *Preventive Controls for Animal Food* rule, and learn some of the specific requirements of subparts A, D, and F. Note that subparts B, C, and E will be summarized in this chapter, but are covered in more depth in later chapters.

Significant Animal Food Laws and Regulations

- 1906 Pure Food & Drug Act
- · 1938 Federal Food, Drug & Cosmetic Act
- 1958 Food Additives Amendment
- 1976 Medicated Feed CGMPs
- 1996 Animal Drug Availability Act (VFDs)
- 1997 BSE/Ruminant Feed Regulations
- 2002 Bioterrorism Preparedness and Response Act
- 2007 Food and Drug Administration Amendments Act
- 2011 Food Safety Modernization Act (FSMA)
- 2014 Veterinary Feed Directive Revised Regulations



Slide 3

It is sometimes helpful to reflect on other significant laws and regulations enacted that impact animal food safety. Many of these laws and regulations helped form the foundation for animal food safety regulations prior to the *Preventive Controls for Animal Food* rule, while others are tangential to its objective.

The existing laws and regulations for animal food established a framework for regulation of animal food in the United States. From the definitions established in the Federal Food, Drug, and Cosmetic Act to the concepts of Current Good Manufacturing Practices, compliance inspections, recordkeeping, hazard control, and traceability, all of these previously existing laws and regulations set a foundation for the basis of the *Preventive Controls for Animal Food* rule. The *Preventive Controls for Animal Food* rule was developed as directed by Congress in FSMA. The *Preventive Controls for Animal Food* rule and the existing laws and regulations will work together to ensure the safety of the U.S. animal food supply.

FSMA Snap Shot

Signed into law January 4, 2011

- The current food safety system has opportunity for improvement.
 - 1 in 6 Americans (48 million) sickened, 128,000 hospitalized, 3,000 die each year from foodborne diseases (CDC, 2011)
- Identified by FDA as the most sweeping reform of food safety laws in more than 70 years.
 - GOAL: Aims to ensure the U.S. food supply is safe by shifting the focus of federal regulators from <u>responding</u> to contamination to preventing it.

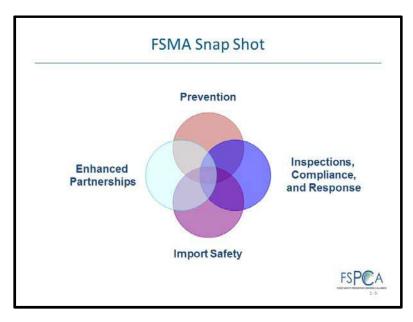


Slide 4

FSMA was signed into law in January 2011. The bill was drafted because Congress felt that current food safety had the opportunity for improvement. At the time the law was passed, data from the Centers for Disease Control and Prevention (CDC) reported that 1 in 6 Americans, which is approximately 48 million people, were sickened, 128,000 hospitalized, and 3,000 died each year from foodborne diseases.

Animal food can cause illness and potentially death in humans who either contact the animal food or who consume the edible products (e.g., meat, milk, and eggs) of animals who eat contaminated food. Animal food can also cause illness or death of animals, which includes both pet animals and food-producing animals. Given the complex nature of the animal food supply and increasing globalization of the animal food supply, animal food was also incorporated into FSMA so that animal food hazards impacting animal and human health were controlled throughout the food supply.

The FDA has described FSMA as the most sweeping reform of our food safety laws in more than 70 years. This is quite the statement considering that several of the laws and regulations described on the previous slide had major impacts on the animal food industry. The goal of FSMA is to ensure the U.S. food supply is safe by shifting the focus of federal regulators from responding to contamination to preventing it.



Slide 5

There are four main themes of FSMA: prevention, enhanced partnerships, import safety, and inspections/compliance/response. These themes mandate FDA to:

- 1. Enhance partnerships between domestic and foreign government agencies, such as through the creation of the domestic integrated food safety system;
- 2. Help ensure that imported food meets U.S. food safety standards;
- 3. Conduct food facility inspections at a required frequency and utilize new tools to ensure compliance and respond more quickly when food safety problems are detected; and
- 4. Create a regulatory system that prevents the occurrence of food safety hazards.

It is Theme 4: Prevention that is the focus of the *Preventive Controls for Animal Food* rule described by this curriculum.

FSMA Snap Shot

This course covers just one of many rules created under the framework of FSMA.

- 1. Preventive Controls for Animal Food
- 2. Preventive Controls for Human Food
- 3. Produce Safety
- Foreign Supplier Verification Programs (FSVP) for Importers
- 5. Sanitary Transportation of Human and Animal Food
- 6. Accredited Third-Party Certification
- Mitigation Strategies to Protect Food Against Intentional Adulteration



Slide 6

Congress directed FDA to create regulations to fully implement the four themes of FSMA. Because FSMA is so multifaceted, many rules are required for its implementation. The initial rule making has resulted in seven major rules that together form the new foundation for food safety for human and animal food. The seven major final rules were published between September 2015 and May 2016.



This course only covers Preventive Controls for Animal Food. The FDA website and guidance documents can help provide further information on other rules, as can other training courses developed by the Food Safety Preventive Controls Alliance.

Slide 7

Of the seven major final FSMA rules, only 4 of the 7 have application to the animal food industry. The *Preventive Controls for Animal Food, Foreign Supplier Verification Program, Accredited Third-Party Certification*, and *Sanitary Transportation of Human and Animal Food* rules all have application for the animal food industry. Of these four rules, the two with the broadest and most immediate implications are the *Preventive Controls for Animal Food* and *Foreign Supplier Verification Program* rules.

The three major FSMA rules that do NOT apply to animal food are the rules for *Preventive Controls for Human Food, Produce Safety,* and *Intentional Adulteration*.

There are separate training requirements and standardized curricula for some of the other rules. For example, there are separate FSPCA course for the *Preventive Controls for Human Food* rule and the *Foreign Supplier Verification Program* rule. This curriculum will focus only on the *Preventive Controls for Animal Food* rule.

Preventive Controls for Animal Food Timeline

- January 2011: FSMA signed into law
- October 2013: First version issued (Proposed Rule)
- · September 2014: Second version issued (Revised Rule)
- September 2015: Final rule published

Current Good Manufacturing Practice	Hazard Analysis and Risk-Based Preventive Controls
Sept. 19, 2016	Sept. 18, 2017
Sept. 18, 2017	Sept. 17, 2018
Sept. 17, 2018	Sept. 17, 2019
	Manufacturing Practice Sept. 19, 2016 Sept. 18, 2017

Compliance dates for Subpart E (Supply-Chain Program) vary based on several factors. See Table 33 in the preamble to the Final Rule (page 56329) at: https://www.gpo.gov/fdsys/pkg/FR -2015-09-17/pdf/2015-21921.pdf

Slide 8

January 2011 saw the signing of FSMA by President Obama. The first version of the *Preventive Controls for Animal Food* rule was published as a proposed rule in October 2013. A supplemental proposal that provided revisions to the proposed rule was issued in September 2014, and the final rule was published on September 17, 2015.

There are two major subparts to the rule – the Current Good Manufacturing Practice (CGMP) requirements found in 21 CFR part 507, subpart B and the Hazard Analysis and Risk-Based Preventive Controls requirements found in 21 CFR 507, subpart C. Because the animal food industry will be implementing both CGMPs and preventive controls for the first time, the compliance dates were staggered for the implementation of these subparts based on business size:

- Businesses with more than 500 employees must comply with the Current Good Manufacturing Practice requirements by September 19, 2016 and the Hazard Analysis and Risk-Based Preventive Controls by September 18, 2017.
- Small businesses must comply with CGMP requirements by September 18, 2017 and the Hazard Analysis and Risk-Based Preventive Controls by September 17. 2018.
- Those that meet the definition of a *Very Small Business*, which is a type of *Qualified Facility*, will have to comply with CGMP requirements by September 17, 2018 and with Hazard Analysis and Risk-Based Preventive Controls by September 17, 2019.

21 CFR Part 507 – Preventive Controls for Animal Food

- Subpart A General Provisions
- Subpart B Current Good Manufacturing Practice
- Subpart C Hazard Analysis and Risk-Based Preventive Controls
- Subpart D Withdrawal of a Qualified Facility Exemption
- Subpart E Supply-Chain Program
- Subpart F Requirements Applying to Records That Must Be Established and Maintained



Slide 9

Here is the first slide with a blue outlined box and italics. That is a cue that the slide is referencing the regulation, not just examples or recommendations for its application. Note that this chapter has a lot of blue boxes as there will be a lot of regulatory concepts reviewed here. Other chapters tend to have less focus on the regulation as they are more focused in scope.

The *Preventive Controls for Animal Food* rule has 6 subparts (see Appendix 1 for a copy of the regulation in its entirety and Appendix 2 for a technical amendment to the rule). The subparts include:

- Subpart A: General Provisions, including training requirements and applicability
- Subpart B: Current Good Manufacturing Practice requirements
- Subpart C: Hazard Analysis and Risk-Based Preventive Controls
- Subpart D: Requirements for withdrawal of a Qualified Facility's exemption status by FDA
- Subpart E: Supply-Chain Program requirements
- Subpart F: Requirements applying to records that must be established and maintained

21 CFR Part 507 – Preventive Controls for Animal Food

Subpart A – General Provisions

- 507.1 Applicability and status.
- 507.3 Definitions.
- 507.4 Qualifications of individuals who manufacture, process, pack, or hold animal food.
- 507.5 Exemptions.
- 507.7 Requirements that apply to a qualified facility.
- 507.10 Applicability of subparts C and E of this part to a facility solely engaged in the storage of unexposed packaged animal food.
- 507.12 Applicability of this part to the holding and distribution of human food by-products for use as animal food.



The Preamble is where the FDA has provided additional context and answered the public comments to the *Preventive Controls for Animal Food* rule. If there are additional questions about a section of the regulations, it is often helpful to read the corresponding section of the Preamble. The Preamble reflects the FDA's current thinking of the time of rule writing.

Because the rule with the Preamble is 188 pages, only the 20 pages of codified language is included in this training material. The full Federal Register notice with Preamble can be found at

https://www.gpo.gov/fdsys/pkg/FR -2015-09-17/pdf/2015-21921.pdf.

<u>Slide 10</u>

The General Provisions in subpart A are broken into sections

that describe the rule's applicability and status, definitions, qualifications of individuals who manufacture, process, pack, or hold animal food, exemptions, requirements that apply to a *Qualified Facility*, applicability of subparts C and E of this part to a facility solely engaged in the storage of unexposed packaged animal food, and applicability of this part to the holding and distribution of human food by-products for use as animal food. Each of these sections will be described next.

It is suggested that participants follow along with the regulatory text in Appendix 1. The content of Appendix 1 is the final rule printed from the Federal Register. The whole rule in this format, including the Preamble, is 188 pages long according to the Federal Register. The last 20 pages are provided, which is the codified portion of the rule. The first section is Section 507.1, the Applicability and Status of the rule. That section begins on the first page of Appendix I, which is page number 56337 of volume 80 of the Federal Register.

21 CFR 507.1 Applicability and status

- (a) The criteria and definitions in this part apply in determining whether an animal food is:
 - (1) Adulterated within the meaning of:
 - (i) Section 402(a)(3) of the Federal Food, Drug, and Cosmetic Act in that the food has been manufactured under such conditions that it is unfit for food; or
 - (ii) Section 402(a)(4) of the Federal Food, Drug, and Cosmetic Act in that the food has been prepared, packed, or held under insanitary conditions whereby it may have become contaminated with filth, or whereby it may have been rendered injurious to health; and
 - (2) In violation of section 361 of the Public Health Service Act (42 U.S.C. 264).



The determination if specific facilities meet the applicability or exemptions described by the *Preventive Controls for Animal Food* rule is outside the scope of this course. Questions regarding applicability may be directed to the FDA via the online Technical Assistance Network portal available through: www.fda.gov/fsma.

Slide 11

An animal food does not need to contain a harmful substance to be adulterated. The Federal Food, Drug, and Cosmetic Act (Sections 301(a) and (k) prohibits introducing or delivering for introduction into interstate commerce adulterated animal food, and doing an act (e.g., violating CGMPs or preventive controls) that causes animal food to become adulterated after receipt of that food or its components in interstate commerce while the food is held by a facility for sale.

Among other remedies, the government has authority to file actions in court to remove adulterated animal food from the marketplace (seizure) and/or to prevent a firm from continuing to manufacture and distribute adulterated food (injunction; Sections 304 and 302). Following the CGMP and preventive controls requirements for animal food is important because it may help prevent an animal food facility from producing and distributing adulterated animal food.

Ultimately, the failure to comply with the *Preventive Controls for Animal Food* rule may result in FDA determining an animal food is adulterated because it was manufactured under conditions unfit for food, or it was prepared, packed, or held under insanitary conditions where it may have been contaminated.

21 CFR 507.1 Applicability and status

- (b) The operation of the facility that manufactures, processes, packs, or holds animal food for sale in the United States if the owner, operator, or agent in charge of such facility is required to comply with, and is not in compliance with, section 415 of the Federal Food, Drug, and Cosmetic Act or subparts C, D, E, or F of this part and §507.7 is a prohibited act under section 301(uu) of the Federal Food, Drug, and Cosmetic Act.
- (c) Animal food covered by specific current good manufacturing practice regulations is also subject to the requirements of those regulations.

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The *Preventive Controls for Animal Food* rule applies to all facilities that are required to register with FDA under section 415 of the Federal Food, Drug, and Cosmetic Act because they manufacture, process, pack, or hold animal food for consumption in the United States. There are some exemptions and modified requirements for certain registered facilities, which are discussed later. Establishments, such as farms, are exempt from registration and are therefore not subject to the requirements of 21 CFR part 507. Both domestic animal food manufacturing facilities and foreign facilities importing food into the U.S. must comply with the rule.

In addition to regulations outlined in this rule, facilities must still comply with other regulations that apply to the type of animal food they are manufacturing, such as regulations for Thermally Processed Low-Acid Foods Packaged in Hermetically Sealed Containers (21 CFR 113) and Current Good Manufacturing Practice for Medicated Feeds (21 CFR 225).

Who Must Comply?

- Facilities that manufacture, process, pack, or hold animal food for consumption in the United States
 - In general, those that register under Section 415 of the Federal Food, Drug, and Cosmetic Act (Bioterrorism Act).
 - Not complying is considered a prohibited act.
- Animal food covered by specific CGMP regulations must still comply with those regulations
 - Low-acid canned food
 - Medicated feed



Slide 13

To summarize, the rule is applicable to facilities that register as an animal food facility under Section 415 of the Federal Food, Drug, and Cosmetic Act. If facilities do not comply, it is a prohibited act. Facilities that are already subject to other animal food safety regulations, such as medicated feed CGMPs, must continue to abide by those regulations in addition to the requirements found in the *Preventive Controls for Animal Food* rule.

21 CFR 507.3 Definitions

- The definitions and interpretations contained in section 201 of the Federal Food, Drug, and Cosmetic Act apply to such terms when used in this part.
- · Discussed throughout individual chapters



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The definitions found in 21 CFR 507.3 include definitions found in section 201 of the Federal Food, Drug, and Cosmetic Act and the specific definitions that are also listed in 21 CFR 507.3. This curriculum will not walk through each definition in 21 CFR part 507. Instead, it will cover them as the need arises throughout the training. The official definitions begin on page 2 of Appendix 1, which is page 56338 of the Federal Register.

21 CFR 507.4 Qualifications of Individuals who Manufacture, Process, Pack, or Hold Animal Food

- (a)(1) The management of an establishment must ensure that all individuals who manufacture, process, pack, or hold animal food subject to subparts B and F of this part are qualified to perform their assigned duties; and
- (2) The owner, operator, or agent in charge of a facility must ensure that all individuals who manufacture, process, pack, or hold animal food subject to subparts C, D, E, or F of this part are qualified to perform their assigned duties.



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The next section describes the required qualifications of an individual who is directly involved in manufacturing, processing, packing, or holding animal food. For establishments subject to CGMP and recordkeeping requirements (21 CFR part 507, subparts B and F), the management of an establishment must ensure that all individuals who manufacture, process, pack, or hold food are qualified to perform their assigned duties. For facilities subject to hazard-analysis and risk based preventive control, supply-chain program, and recordkeeping requirements (21 CFR part 507, subparts C, D, E, and F), the owner, operator, or agent in charge of a facility must ensure that all individuals who manufacture, process, pack, or hold food are qualified to perform their assigned duties.

21 CFR 507.4 Qualifications of Individuals who Manufacture, Process, Pack, or Hold Animal Food

- (b) Each individual engaged in manufacturing, processing, packing, or holding animal food (including temporary and seasonal personnel) or in the supervision thereof must:
 - (1) Be a qualified individual as that term is defined by §507.3 i.e. have the education, training, or experience (or a combination thereof) necessary to manufacture, process, pack, or hold safe animal food as appropriate to the individual's assigned duties;
 - (2) Receive training in the principles of animal food hygiene and animal food safety, including the importance of employee health and personnel hygiene, as appropriate to the animal food, the facility and the individual's assigned duties.

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Any individual, including temporary and seasonal personnel, engaged in manufacturing, processing, packing, or holding of animal food or the supervision of those activities must be a *Qualified Individual* as defined in section 507.3. He or she must have the education, training, or experience, or a combination thereof, necessary to manufacture, process, pack or hold safe animal food as appropriate to the individual's assigned duties.

In addition, the individual must receive training in the principles of animal food hygiene and animal food safety, including the importance of employee health and personnel hygiene, as appropriate to the animal food, the facility, and the individual's assigned duties. Records of training in the principles of animal food hygiene and animal food safety must be documented.

21 CFR 507.4 Qualifications of Individuals who Manufacture, Process, Pack, or Hold Animal Food

- (c) Responsibility for ensuring compliance by individuals with the requirements of this part must be clearly assigned to supervisory personnel who have the education, training, or experience (or a combination thereof) necessary to supervise the production of safe animal food.
- (d) Records that document training required by paragraph (b)(2) of this section must be established and maintained and are subject to the recordkeeping requirements in subpart F of this part.



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Supervisors must ensure compliance with training to the duties of the qualified individual and the training in principles of animal food hygiene and animal food safety.

Records must be established and maintained to document that the training in animal food hygiene and animal food safety occurred. Those records are subject to the requirements outlined in 21 CFR part 507, subpart F, which will be described at the end of this chapter.

21 CFR 507.3 – Definitions: "Qualified Individual"

 A person who has the education, training, or experience (or a combination thereof) necessary to manufacture, process, pack, or hold safe animal food as appropriate to the individual's assigned duties. A qualified individual may be, but is not required to be, an employee of the establishment.



Slide 18

Qualified Individual is a defined term in the definitions section of the rule. The requirements for training, established in subpart A, apply to individuals engaged in manufacturing, processing, packing, or holding food regardless of whether the individuals conduct these activities under the framework of the CGMPs established in subpart B and F or the framework for hazard analysis and risk-based preventive controls established in subparts C, D, E, and F.

Note that a *qualified individual* may or may not be an employee of an establishment. Individuals, even if he or she is a temporary or seasonal worker, must be qualified to perform their assigned duties.

What are the Qualifications of Individuals?

- All individuals who manufacture/process/pack/hold animal food must be qualified to perform their assigned duties:
 - Includes temporary and seasonal workers
 - Must be a Qualified Individual as defined by § 507.3
 - Have education, training, experience, or a combination thereof, to complete duties in a way that results in safe food.
 - Receive training on animal food hygiene and safety, including importance of employee health and personnel hygiene as appropriate.
- The responsibility for this assurance changes:
 - o Subpart B: Management of an establishment
 - o Subpart C: Owner, operator, or agent in charge of the facility



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To summarize, all individuals associated with the specified tasks for animal food, even if they are temporary or seasonal

workers, are required to be qualified in order to perform their assigned duties. The language that states "as appropriate to the animal food, the facility, and the individual's assigned duties" demonstrates that there is flexibility in the application of the requirement for training in the principles of animal food hygiene and animal food safety.

There may not be a need for all personnel to have the same level of training in the principles of animal food hygiene and animal food safety. For example, a forklift driver may not be required to undergo as intensive of a training course as an ingredient receiving operator. The forklift driver may rarely come in contact with unpackaged animal food, so his or her training may be geared towards what precautions to take when operating the forklift so that the animal food is not contaminated when it is being moved by the forklift. However, those individuals must have the education, training, experience, or a combination thereof, to complete their duties in a way that results in safe animal food, and they must receive training on animal food hygiene and safety, including the importance of employee health and personnel hygiene, as appropriate. Records to support that training in animal food hygiene and safety are necessary for a facility to maintain.

Finally, the responsibility for the assurance that individuals are qualified changes depending upon the subpart. Management is responsible for assuring that individuals are qualified to perform their assigned duties when the plant is subject to the CGMP requirements in subpart B and F. Meanwhile, the owner, operator, or agent in charge of the facility is responsible for this assurance when the facility is subject to the requirements in subpart C, D, E, and F.

The 'education or training' referred to in this section means training by any reasonable means. This may include training by facility personnel, an external source, or the combination of the two. Training may occur on the job, in a classroom setting, or online. There is no specified frequency for training, but individuals should receive training prior to independently performing their assigned duties and refresher training should be made available as appropriate. Individuals currently involved with manufacturing, processing, packing, or holding animal food at the facility are to be trained by the first compliance date for the Preventive Controls for Animal Food rule that applies to the facility.

Chapter 1

21 CFR 507.3 – Definitions: "Preventive Controls Qualified Individual"

 A Qualified Individual who has successfully completed training in the development and application of riskbased preventive controls at least equivalent to that received under a standardized curriculum recognized as adequate by FDA, or is otherwise qualified through job experience to develop and apply a food safety system.



<u>Slide 20</u>

Another term that is similar to that of a *Qualified Individual* is a *Preventive Controls Qualified Individual*. This *Preventive Controls Qualified Individual* term is defined in 21 CFR 507.3 as a *Qualified Individual* who has successfully completed training in the development and application of risk-based preventive controls at least equivalent to that recognized under a standard curriculum recognized as adequate by FDA, or is otherwise qualified through job experience to develop and apply a food safety system.

Preventive Controls Qualified Individual(s)

Must oversee:

- 1. Preparation of the Food Safety Plan
- 2. Validation of the preventive controls
- 3. Determination that validation is not required
- 4. Review of records
- 5. Reanalysis of the Food Safety Plan
- Written justification for validation to be performed in a timeframe that exceeds the first 90 calendar days of production
- Written justification for review of records of monitoring and corrective actions within a timeframe that exceeds 7 working days
- Determination that reanalysis can be completed and additional preventive controls validated as appropriate to the nature of the preventive control and its role in the facility's food safety system, in a timeframe that exceeds the first 90 calendar days of production



Slide 21

Under the regulation (21 CFR 507.53), the *Preventive Controls Qualified Individual* has a lot of responsibility as certain tasks must be performed by someone with those qualifications. This course developed by FSPCA is the "standardized curriculum" recognized by FDA. Successfully completing this course is one way to meet the requirements for a *Preventive Controls Qualified Individual*. Under the *Preventive Controls for Animal Food* rule, some of the responsibilities of a *Preventive Controls Qualified Individual* include to perform or oversee 1) preparation of the Food Safety Plan, 2) validation of the preventive controls, 3) records review and 4) reanalysis of the Food Safety Plan.

The *Preventive Controls Qualified Individual* may be an employee of the facility but the facility can also use outside assistance in developing the Food Safety Plan. In some situations, more than one *Preventive Controls Qualified Individual* may be needed to effectively develop and implement a Food Safety Plan.

21 CFR 507.5 Exemptions

- Establishments, including farms, that are not required to register under § 415 of the Food, Drug, & Cosmetic Act
- Subpart B (CGMP) does not apply to establishments solely engaged in:
 - The holding and/or transportation of raw agricultural commodities.
 - Hulling, shelling, drying, packing, and/or holding nuts and hulls (without manufacturing/processing, such as grinding shells or roasting nuts).
 - Ginning of cotton (without manufacturing /processing, such as extracting oil from cottonseed).



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The next section of this chapter is key to understanding who is subject to the *Preventive Controls for Animal Food* rule. Exemptions to the rule or to specific subparts of the rule are found in 21 CFR 507.5. Establishments, such as farms, that are not required to register under section 415 of the Federal Food, Drug, & Cosmetic Act do not need to comply with any part of this rule. The definition of a farm is discussed in more detail later in this chapter. Other establishments that are not required to register include facilities such as retail food establishments, restaurants, pet shelters, and veterinary facilities that provide food to animals.

As with the applicability section, the determination of whether specific facilities meet the exemptions described by the *Preventive Controls for Animal Food* rule is outside the scope of this course. For this reason, the full context of this section is not reviewed in the curriculum. Additional information is available in the rule.

Common questions and their answers were published in December 2016 by FDA in the Draft Guidance for Industry: Questions and Answers Regarding Food Facility Registration (Seventh Edition) — Revised. There is also a Draft Guidance for Industry: Classification of Activities as Harvesting, Packing, Holding, or Manufacturing/Processing for Farms and Facilities that can help facilities determine if their activities would result in them being classified as a "farm" or a "facility".

Additional questions regarding rule applicability may be directed to the FDA via the online Technical Assistance Network portal available through: www.fda.gov/fsma.

Subpart B, or the Current Good Manufacturing Practices, are not required for facilities that are (1) solely engaged in the holding and/or transportation of raw agricultural commodities, (2) the hulling, shelling, drying, packing, and/or holding of nuts and hulls (without manufacturing/processing), or (3) the ginning of cotton (without manufacturing/processing).

21 CFR 507.5 Exemptions

- Subparts C and E do not apply to:
 - Activities subject to regulations for Thermally Processed Low-Acid Foods Packaged in Hermetically Sealed Containers (just those activities, not the whole facility)
 - Activities that are subject to Standards for Produce Safety Rule
 - Qualified Facilities (must follow modified requirements)
 - Small or very small businesses (Qualified Facilities) that are farm mixed-type facilities if the only packing or holding activities are specified low-risk packing or holding activity/animal food combinations, even if activities are for distribution into commerce
 - Facilities solely engaged in storage of raw agricultural commodities (other than fruits and vegetables) intended for further distribution or processing



Slide 24

Finally, the hazard analysis and risk-based preventive controls and supply-chain program, which are subparts C and E, do not apply to:

- 1) Activities subject to regulations for Thermally Processed Low-Acid Foods Packaged in Hermetically Sealed Containers for the control of microbiological hazards
- 2) Activities that are subject to the produce safety rule.
- 3) A *Qualified Facility*. This definition will be discussed in subsequent slides. While qualified facilities are not subject to 21 CFR part 507, subparts C and E, there are modified requirements applicable to qualified facilities in 21 CFR 507.7.
- 4) A *Small Business* or *Very Small Business* that is a farm mixed-type facility if the only packing or holding activities are specified low-risk packing or holding activity/animal food combinations or low-risk manufacturing/processing activity/animal food combinations, even if the activities are intended to distribute animal food into commerce (for a list of activities, refer to 21 CFR 507.5(e) and (f) respectively).
- 5) Facilities solely engaged in the storage of raw agricultural commodities (other than fruits and vegetables) intended for further distribution or processing.

21 CFR 1.227 - Definitions: "Primary Production Farm"

- An operation under one management in one general but not necessarily contiguous physical location
- Devoted to the growing of crops, the harvesting of crops, the raising of animals, or any combination of these activities
- May conduct certain manufacturing, processing, packing, or holding activities of animal food as specified.



Note these definitions come from the *Preventive Controls for Human Food (PCHF)* rule, as seen by the different CFR reference. The exact definitions can be found in the PCHF rule, and additional explanation of their applicability can be found in the Preamble of that rule.

The clause that requires "all processed food to be consumed on the farm or another farm under the same management" is key to understanding applicability of the *Preventive Controls for Animal Food* rule to feed mills that may be managed by a farm. The FDA does not consider animals fed at a farm of a contract grower to be under the same management as the feed mill.

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To be subject to the requirements of the *Preventive Controls for Animal Food* rule, a facility has to be required to register under section 415 of the Food, Drug, and Cosmetic Act. Farms are one type of establishment that are not subject to registration and are therefore exempt from the requirements of this rule. Farms are defined in 21 CFR 1.227. The definition of a farm is broken into two parts, a *Primary Production Farm*, and a *Secondary Activities Farm*. The *Primary Production Farm* is an operation under one management in one general, but not necessarily contiguous, location that is devoted to the growing of crops, the harvesting of crops, the raising of animals, or any combination of these activities.

If an operation grows crops, harvest crops, or raises animals, the operation can do additional activities as part of its farming operation, such as:

- 1. Pack or hold raw agricultural commodities;
- 2. Pack or hold processed foods, provided that all processed food is consumed on the farm or another farm under the same management; or
- 3. Manufacture/process food, provided that:
 - a. All food that the farm manufactures/processes is consumed on that farm or another farm under the same management; OR
 - b. Any food not consumed on that farm consists only of manufacturing/processing in the following limited categories
 - Drying/dehydrating raw agricultural commodities to create a distinct commodity;
 - Treatment to manipulate ripening of a raw agricultural commodity; or
 - Packaging and labeling without additional manufacturing/processing.

The raising of animals is outside of the scope of the *Preventive Controls for Animal Food* rule – that is clearly a farming activity. The rule is specific to the manufacturing, processing, packing, or holding of animal food – so the feed mill located on the farm is the part of a farm that is potentially subject to the rule.

21 CFR 1.227 – Definitions: "Secondary Activities Farm"

- An operation not located on a primary production farm that is devoted to harvesting, packing, and/or holding raw agricultural commodities.
- The primary production farm(s) that grow, harvest, and/or raise the majority of those raw agricultural commodities must own or jointly own a majority interest in the secondary activities farm.
- May also pack or hold raw agricultural commodities, or manufacture/process, pack, or hold processed foods so long as all such food is consumed on that farm or another farm under the same management or the manufacturing/processing falls into limited categories.



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The Secondary Activities Farm was created to address off-farm operations, such as packinghouses owned by farmers. A Secondary Activities Farm is an operation not located on a Primary Production Farm, but is dedicated to the harvesting, packing, and/or holding of raw agricultural commodities. The Secondary Activities Farm must be majority owned by the Primary Production Farm(s) that grows, harvests, and/or raises the majority of the raw agricultural commodities harvested, packed, or held by the Secondary Activities Farm. A Secondary Activities Farm may also conduct the additional activities that are allowed on a Primary Production Farm.

Impact of Farm Definition on Feed Mills

- Feed mills that are part of a farm are exempt from registering as a food facility and are not subject to rule
- For the feed mill to be part of the farm:
 - Raising animals and feed mill are under same management in one general location, AND
 - Animal food made at the mill is only fed to animals under the farm's management

For a full discussion of changes to the farm definition, refer to the Preamble to the *Preventive Controls for Human Food* rule (pages 55925 to 55932 of vol. 80 of the Federal Register).

For a full discussion of 'fully vertically integrated farming operations' refer to the Preamble to the Preventive Controls for Animal Food rule (pages 56184-56185 of vol. 80 of the Federal Register).



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Feed mills associated with farming operations have the potential to be subject to the requirements of this final rule. If a feed mill is part of the farm – meaning the feed mill and raising the animals are under the same management, in one general location, and the animal food made at the feed mill is only fed to animals under the farm's management - that feed mill is exempt from registering as a food facility as it falls under the definition of a farm. In the preamble to the final rule, FDA describes this type of farming operation as a "fully vertically integrated farming operation." Because these types of feed mills are not subject to registration, these feed mills are NOT subject to any part of the rule (CMGPs or preventive controls).

On the opposite side, there are feed mills that are required to register as a food facility under section 415 of the Federal Food, Drug, & Cosmetic Act and are subject to the *Preventive Controls for Animal Food* rule. There are several examples of feed mills required to register, but three key examples include:

- 1. Commercial or toll mills: The mill produces animal food for sale and is not associated with a farm. The feed mill must register as a food facility and is subject to the rule.
- 2. Feed mill located off-farm that makes animal food for contract farms These feed mills are not under the same management as the farms that are responsible for the raising of animals. The feed mill must register as a food facility and is subject to the rule.
- 3. Farm feed mill with outside customers: The feed mill manufactures food for animals on the farm and under the same management, but also manufactures, processes, packs, or holds food for animals on farms under a different management. The mill must register as a food facility and is subject to the rule.

These are examples of feed mills that are not considered part of farm and are required to register as a food facility. Therefore, these feed mills are subject to the rule.

21 CFR 507.3 – Definitions: "Very Small Business"

 A business (including any subsidiaries and affiliates) averaging less than \$2,500,000, adjusted for inflation, per year, during the 3-year period preceding the applicable calendar year in sales of animal food plus the market value of animal food manufactured, processed, packed, or held without sale (e.g. held for fee or supplied to a farm without sale).



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If a facility does not meet the exemptions described by the farm definitions and registers as a food establishment, it must comply with the *Preventive Controls for Animal Food* rule. However, there are some additional exemptions and delayed

compliance dates for *Qualified Facilities*. A Very Small Businesses is one type of *Qualified Facility*.

A *Very Small Business* is a business (including any subsidiaries and affiliates) averaging less than \$2,500,000 adjusted for inflation, per year, during the 3-year-period preceding the applicable calendar year in sales of animal food plus the market value of animal food manufactured, processed, packed, or held without sale, such as that held for a fee or supplied to a farm without sale.

As with the exemption section, an in-depth discussion of business sizes is outside the scope of this course. For this reason, the full context of this section is not reviewed in the curriculum.

In 2016, FDA released Guidance for Industry #241: Small Entity
Compliance Guide – What You
Need to Know About the FDA
Regulation: Current Good
Manufacturing Practice, Hazard
Analysis, and Risk-Based
Preventive Controls for Food for
Animals (21 CFR Part 507).

Additional information is available in the rule or the FDA Guidance for Industry regarding Qualified Facilities. Additional questions regarding rule applicability may be directed to the FDA Technical Assistance Network.

21 CFR 507.3 – Definitions: "Qualified Facility"

- (when including the sales by any subsidiary; affiliate; or subsidiaries or affiliates, collectively, of any entity of which the facility is a subsidiary or affiliate) a facility that is a very small business as defined in this part, or a facility to which both of the following apply:
 - During the 3-year period preceding the applicable calendar year, the average annual monetary value of the food manufactured, processed, packed, or held at such facility that is sold directly to qualified end-users during such period exceeded the average annual monetary value of the food sold by such facility to all other purchasers; and
 - The average annual monetary value of all food sold during the 3year period preceding the applicable calendar year was less than \$500,000, adjusted for inflation.



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A Qualified Facility is a facility that is a

- Option 1: Very Small Business; OR
- Option 2: A facility to which both of the following apply:

A guidance document for *Qualified Facilities* has been developed by FDA. The guidance document provides information to assist facilities with determining whether they are a *Very Small Business*, including how to calculate the inflation adjusted average and market value. The guidance can be found at:

https://www.fda.gov/Food/Guidan ceRegulation/GuidanceDocumentsR egulatoryInformation/ucm496264.h tm.

A discussion of how to value animal food without sale can be found in the Preamble of the *Preventive Controls for Animal Food* rule.

To fully understand the requirements of Option 2 of the qualified facility definition, you should review the definition for the *Qualified End-User* in 21 CFR 507.3.

- 1. During the 3-year period preceding the applicable calendar year, the average annual monetary value of the food manufactured, processed, packed, or held at such facility that is sold directly to *Qualified End Users* during such period exceeded the average annual monetary value of the food sold by such facility to all other purchases; and
- 2. The average annual monetary value of all food sold during the 3-year prior preceding the applicable calendar year was less than \$500,000, adjusted for inflation.

The majority of animal food facilities that meet the definition of a *Qualified Facility* are expected to be a *Very Small Business* (Option 1), and not many animal food facilities are expected to meet Option 2 of the *Qualified Facility* definition.

21 CFR 507.7 Requirements that Apply to a Qualified Facility

- Qualified facilities must submit attestations to the FDA that the facility:
 - Meets the "qualified facility" definition
 - o Must determine status by July 31 of each calendar year.
 - Records to support status must be retained beginning January 1, 2017, but do not need to be part of the attestation.
 - Meets one of the following:
 - Option 1: Has identified potential hazards associated with the animal food being produced, are implementing preventive controls to address the hazards, and are monitoring the performance of the preventive controls to ensure such controls are effective
 - Option 2: Is in compliance with state, local, county, tribal, or other applicable non-federal food safety laws.
- Initial attestations must be submitted by December 2019, and resubmitted every two years beginning in 2020.



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A *Qualified Facility* must comply with the Current Good Manufacturing Practices in subpart B and the qualified individual training requirements in 21 CFR 507.4, but is exempt from hazard analysis and risk-based preventive controls (21 CFR part 507, subpart C) and requirements for a supply-chain program (21 CFR part 507, subpart E). Therefore, a *Qualified Facility* is not required to utilize a PCQI within their food safety system, since a PCQI is required to oversee specified requirements established in subpart C. However, the facility is subject to other specific requirements that are found in 21 CFR 507.7. Some may refer to these requirements as "modified requirements."

A *Qualified Facility* must submit required attestations to the FDA. The first attestation that the facility must submit is that it meets the definition of a *Qualified Facility*. Each qualified facility must determine its own status by July 31 of each calendar year, and the records to support this status must be retained beginning January 1, 2017. The facility must maintain the records (such as financial documents) to support that status. These records may include the three-year average of sales that qualify them as a *Very Small Business* or *Qualified Facility* status. These records do not have to be sent to FDA as part of the attestation.

The facility has a choice between two options for its second attestation. Option 1 is an attestation that the facility has identified potential hazards in its animal food and is implementing, and subsequently monitoring preventive controls. Option 2 is an attestation that the facility is in compliance with state, local, county, tribal, or other applicable non-Federal food safety law.

The first time a *Qualified Facility* must submit its initial attestation is by December 16, 2019. After the initial attestation, attestation must be submitted every 2 years (to coincide with the biennial registration renewal) beginning in 2020.

Chapter 1

21 CFR 507.10 Applicability of subparts C and E of this Part to a Facility Solely Engaged in the Storage of Unexposed Packaged Animal Food.

- (a) Subparts C and E of this part do not apply to a facility solely engaged in the storage of unexposed packaged animal food that does not require time/temperature control to significantly minimize or prevent the growth of, or toxin production by, pathogens.
- (b) A facility solely engaged in the storage of unexposed packaged animal food, including unexposed packaged animal food that requires time/temperature control to significantly minimize or prevent the growth of, or toxin production by, pathogens is subject to the modified requirements in § 507.51 for any unexposed packaged animal food that requires time/temperature control to significantly minimize or prevent the growth of, or toxin production by, pathogens.



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Section 507.10 of the regulation discusses the applicability of the requirements for hazard analysis and risk-based preventive controls (subpart C) and the supply-chain program requirements (subpart E) to facilities that are "solely engaged in the storage of unexposed packaged animal foods," such as warehouses.

If a warehouse's only function is to store unexposed packaged animal food that <u>does not</u> require time/temperature control to control pathogens – the warehouse is exempt from the requirements for subparts C and E.

If a warehouse's only function is to store unexposed packaged animal food that <u>does</u> require time/temperature control to control pathogens – the warehouse is exempt from the full requirement s of subparts C and E, but the warehouse would be subject to the modified requirements for this type of facility as specified in 21 CFR 507.51 as outlined next.

507.51 Modified Requirements that Apply to a Facility Solely Engaged in the Storage of Unexposed Packaged Animal Food

- If animal food requires time/temperature control to significantly minimize or prevent the growth of, or toxin production by, pathogens, the facility storing the animal food must:
 - o Establish and implement temperature controls
 - Monitor temperature controls
 - o Take corrective actions if there is a loss of temperature
 - o Verify that temperature controls are consistently implemented
 - Establish and maintain records of monitoring, corrective action, and verification

As with the exemption section, an in-depth discussion of these modified requirements is outside the scope of this course. For this reason, the full context of this section is not reviewed in the curriculum. Additional information is available in the rule. Questions regarding rule applicability may be directed to the FDA via the online portal available through: www.fda.gov.

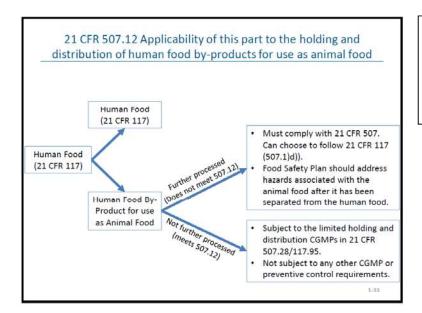


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Animal food facilities, such as a warehouse, that are solely engaged in storage of unexposed packaged animal food that requires time/temperature controls to control a pathogen are not subject to the full requirements of subpart C and E. Instead they are subject to modified requirements in 21 CFR 507.51.

If animal food requires time/temperature control to significantly minimize or prevent the growth of, or toxin production by, pathogens, the facility storing the animal food must:

- Establish and implement temperature controls that can control the growth (or toxin formation) of a pathogen.
- Monitor the implemented controls at a frequency determined to be adequate by the facility.
- Take corrective actions if there is a loss of temperature.
- Verify that temperature controls are consistently implemented.
- Establish and maintain records of monitoring, corrective action, and verification.



For additional information on human food by-products for use as animal food, please refer to

Draft Guidance for Industry # 239:

Human Food By-Products for Use as

Animal Food.

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The next section clarifies the applicability of subparts B, C, and E to the holding and distribution of human food by-products for use as animal food.

If a human food facility is producing a human food by-product for distribution as animal food, and:

- 1) the animal food is subject to and in compliance with the human food CGMP regulations (21 CFR part 117), and
- 2) The facility does not further manufacture or process the by-products intended for use as animal food,

Then the facility must follow limited holding and distribution CGMP requirements from 21 CFR 507.28 after the animal food has been separated from the human food. The facility would not need to follow the rest of the requirements in subpart B, C, or E for part 507.

The holding and distribution of human food by-product for use as animal food requirements are located in both the human food requirements (21 CFR 117.95) and the animal food requirements (21 CFR 507.28). There is a similar provision regarding by-products from facilities that are subject to and in compliance with the requirements for off-farm packing and holding of human food produce that are distributed for use as animal food.

For facilities that do not meet the conditions described in 507.12 and are producing human and animal food at their facility, they have the option of following the human food CGMPs and preventive controls requirements in 21 CFR part 117 or the animal food requirements in part 507 for the production of their animal food. Depending on its operations, a facility may feel it is more appropriate to follow one set of regulations instead of two.

For example, if a facility has separate employees, production lines, and holding areas for its human food and animal food, it might prefer to follow part 117 for the human food and part 507 for the animal food. However, if a facility is using common employees, production lines, or holding areas for the human and animal food, it might prefer to follow part 117 for both the human and animal food.

Subpart B – Current Good Manufacturing Practice

- 507.14 Personnel
- 507.17 Plant and grounds
- 507.19 Sanitation
- 507.20 Water supply and plumbing
- 507.22 Equipment and utensils
- 507.25 Plant operations
- 507.27 Holding and distribution
- 507.28 Holding and distribution of human food by-products for use as animal food



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That concludes subpart A, but there are six subparts total. Subpart B will have its own chapter and it will be discussed in Chapter 2. Chapter 2 describes the Current Good Manufacturing Practice requirements.

21 CFR Part 507 -Preventive Controls for Animal Food Subpart C - Hazard Analysis and Risk-based Preventive Controls 507.31 Food safety plan 507.42 Corrective actions and corrections 507.33 Hazard analysis 507.45 Verification 507.34 Preventive controls 507.47 Validation 507.36 Circumstances in which the 507.49 Verification of implementation and effectiveness owner, operator, or agent in charge of a manufacturing/processing facility is not • 507.50 Reanalysis required to implement a preventive 507.51 Modified requirements that apply control to a facility solely engaged in the storage 507.37 Provision of assurances required of unexposed packaged animal food under § 507.36(a)(2), (3), and (4). 507.53 Requirements applicable to a 507.38 Recall plan preventive controls qualified individual 507.39 Preventive control management and a qualified auditor components • 507.55 Implementation records required 507.40 Monitoring for this subpart

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Most of the remaining curriculum will focus on subpart C, the hazard analysis, and risk-based preventive controls requirements. There are many requirements to this subpart, and they will be discussed in detail in the coming chapters.

Subpart D – Withdrawal of a Qualified Facility Exemption

- 507.60 Circumstances that may lead FDA to withdraw a qualified facility exemption.
- 507.62 Issuance of an order to withdraw a qualified facility exemption
- 507.65 Contents of an order to withdraw a qualified facility exemption
- 507.67 Compliance with, or appeal of, an order to withdraw a qualified facility exemption
- 507.69 Procedure for submitting an appeal
- 507.71 Procedure for requesting an informal hearing
- · 507.73 Requirements applicable to an informal hearing
- 507.75 Presiding officer for an appeal and for an informal hearing
- 507.77 Timeframe for issuing a decision on an appeal
- 507.80 Revocation of an order to withdraw a qualified facility exemption.
- 507.83 Final agency action
- 507.85 Reinstatement of a qualified facility exemption that was withdrawn



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Subpart D explains the circumstances that may lead to FDA's withdrawal of a facility's *Qualified Facility* exemption to subparts C and E, the process of the withdrawal, and processes and procedures that a facility must undergo to have its *Qualified Facility* status reinstated.

The FDA may withdraw a *Qualified Facility* exemption if: 1) there is an active investigation of a foodborne illness outbreak directly linked to the *Qualified Facility*; or 2) FDA determines it is necessary to protect the public human or animal health and prevent or mitigate a foodborne illness outbreak based on conditions or conduct associated with the *Qualified Facility* that are material to the safety of the animal food manufactured, processed, packed, or held at such facility.

Generally, a *Qualified Facility* has an exemption from the requirements of subpart C and E and is instead subject to other requirements for a *Qualified Facility* found in 21 CFR 507.7. However, if a problem occurs, FDA has the ability to withdraw the exemption.

Because of the limited application of this subpart, it will not be covered in this curriculum. Please refer to appendix 1 for additional information on subpart D.

Subpart E - Supply-Chain Program

- 507.105 Requirement to establish and implement a supplychain program
- 507.110 General requirements applicable to a supply-chain program
- 507.115 Responsibilities of the receiving facility
- 507.120 Using approved suppliers
- 507.125 Determining appropriate supplier verification activities (including determining the frequency of conducting the activity)
- 507.130 Conducting supplier verification activities for raw materials and other ingredients
- 507.135 Onsite audit
- 507.175 Records documenting the supply-chain program



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Subpart E highlights the Supply-Chain Program and its requirements. That subpart will be discussed in depth during Chapter 9.

Subpart F – Requirements Applying to Records That Must be Established and Maintained

- 507.200 Records subject to the requirements of this subpart
- 507.202 General requirements applying to records
- 507.206 Additional requirements applying to the food safety plan
- 507.208 Requirements for record retention
- 507.212 Use of existing records
- 507.215 Special requirements applicable to a written assurance



Small entities may want to refer to the FDA Guidance for Industry: What You Need to Know About Establishment, Maintenance, and Availability of Records — Small Entity Compliance Guide. It can be found at:

https://www.fda.gov/downloads/Food/GuidanceRegulation/GuidanceDocumentsRegulatoryInformation/FoodDefense/UCM391440.pdf.

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Subpart F is referenced throughout the regulation and will also be referenced throughout the training. Subpart F provides the requirements applying to records that must be established and maintained to be in compliance with the *Preventive Controls for Animal Food* rule. Sections in subpart F will be addressed more specifically in the next few slides.

21 CFR 507.200 Records subject to the requirements of this subpart

- (a) Except as provided by paragraphs (d) and (e) of this section, all records required by this part are subject to all requirements of this subpart.
- (b) Records obtained by FDA in accordance with this part are subject to the disclosure requirements under part 20 of this chapter.
- (c) All records required by this part must be made promptly available to a duly authorized representative of the Secretary of Health and Human Services for official review and copying upon oral or written request.
- (d) The requirements of § 507.206 apply only to the written food safety plan.
- (e) The requirements of § 507.202(a)(2), (4), and (5) and (b) do not apply to records required by § 507.7.



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All records that must be maintained under part 507 are subject to the requirements within subpart F, including those training records for *Qualified Individuals* as previously mentioned at the beginning of Chapter 1. Records required by Part 507 must be made promptly available for official review and copying upon oral or written request.

If required records are obtained by FDA (for example, during an inspection or investigation), they are subject to the records disclosure requirements of 21 CFR part 20. (21 CFR 507.200(b)). This means FDA may release them in response to a Freedom of Information Act request, subject to the requirements and exemptions of part 20. Some exemptions that might apply to records subject to this rule protect: trade secrets and confidential commercial or financial information, and information that would constitute a clearly unwarranted invasion of personal privacy of the individuals involved (for example, home addresses and telephone numbers, personal email addresses). FDA may redact or withhold records from a requestor if a record meets these, or other exemptions. For more information about Freedom of Information at FDA, see http://www.fda.gov/RegulatoryInformation/FOI/ucm390370.htm.

21 CFR 507.202 General requirements applying to records

- (a) Records must:
 - (1) Be kept as original records, true copies (such as photocopies, pictures, scanned copies, microfilm, microfiche, or other accurate reproductions of the original records), or electronic records;
 - (2) Contain the actual values and observations obtained during verification activities;
 - (3) Be accurate, indelible, and legible;
 - (4) Be created concurrently with performance of the activity documented; and
 - (5) Be as detailed as necessary to provide history of work performed.



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Records must be kept as original records, true copies (such as photocopies, pictures, scanned copies, microfilm, microfiche, or other accurate reproductions of the original records), or electronically. They must contain actual values and observations obtained during monitoring, and, as appropriate, verification activities. They must be accurate, indelible which means they need to be in pen or an electronic form, and legible. The records must be created concurrently with performance of the activity documented and be sufficiently detailed to provide a history of work performed.

Although the records required to be established and maintained by a *Qualified Facility* are subject to subpart F, certain requirements specified in subpart F are not applicable since the requirements relate to provisions in subpart C. As such records established by a *Qualified Facility* do not need to: 1) contain actual values and observations obtained during monitoring, and, as appropriate, verification activities; 2) be created concurrently with performance of the activity documented; or 3) be as detailed as necessary to provide history of work performed

21 CFR 507.202 General requirements applying to records

- (b) All records must include:
 - (1) Information adequate to identify the plant or facility (e.g. the name, and when necessary, the location of the plant or facility);
 - (2) The date and, when appropriate, the time of the activity documented:
 - (3) The signature or initials of the person performing the activity;
 - (4) Where appropriate, the identity of the product and the lot code, if any.
- (c) Records that are established or maintained to satisfy the requirements of this part and that meet the definition of electronic records in § 11.3(b)(6) of this chapter are exempt from the requirements of part 11 of this chapter. Records that satisfy the requirements of this part, but that also are required under other applicable statutory provisions or regulations, remain subject to part 11 of this chapter.



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The required records must include:

- Information adequate to identify the plant or facility, including its name and location when necessary.
- They must be dated, and time recorded when appropriate.
- Records must be signed with a signature or initial of the individual performing the activity.
- Where appropriate, the identity of the product or lot code must be included.

Again, as an exception, the records established by a *Qualified Facility* to meet the requirements in 21 CFR 507.7 do not need to conform to certain record requirements including the criteria specified on this slide (21 CFR 507.202(b)).

Records required under subpart F are exempt from Title 21 Part 11 requirements, so FDA's requirements for electronic records/electronic signatures do not apply.

What Records are Needed?

- Records must
 - Be kept as original records, true copies, or electronic record
 - · Contain actual values and observations
 - Be accurate, indelible, and legible
 - Be created concurrently with performance of the activity
 - Be detailed as necessary
- Records must include
 - Information adequate to identify the plant or facility (name and location)
 - Date and, when appropriate, time of the activity
 - Signature or initials of the person performing the activity
 - The identity of the product and lot code, if any, when appropriate
- The identity of the product and lot code, if any, when appropriate
 These records are exempt from 21 CFR 11 requirements.



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Here is a quick summary that may be useful to refer to the requirements of records. Remember, these are the requirements whenever a section designates that records must meet subpart F requirements. Often, this means that current records in the facility may need to be updated to include locations for the facility name and address, as well as date, time, signature, and lot number, where appropriate.

Chapter 1



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The regulation specifically requires that the Food Safety Plan must be signed and dated by the owner, operator, or agent in charge of the facility upon the plan's completion and any modification. A preventive controls qualified individual's signature cannot substitute for the owner, operator, or agent in charge. They can be a co-signer of the document, but the requirement specifically states that the Food Safety Plan must be signed by the owner, operator, or agent in charge.

21 CFR 507.208 Requirements for record retention

- (a)(1) All records required by this part must be maintained at the plant or facility for at least 2 years after the date they were prepared.
- (a)(2) Records that a facility relies on during the 3-year period preceding the applicable calendar year to support its status as a qualified facility must be retained at the facility as long as necessary to support the status of a facility as a qualified facility during the applicable calendar year.
- (b) Records that relate to the general adequacy of the equipment or processes being used by a facility, including the results of scientific studies and evaluations, must be retained by the facility for at least 2 years after their use is discontinued (e.g. because the facility has updated the written food safety plan (§ 507.31) or records that document validation of the food safety plan (§ 507.45(b))).



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All records must be retained at the animal food facility for at least 2 years after the date they were prepared. Some records may need to be retained even longer, such as 3 years of financial records for a *Qualified Facility*, or training records to document the training of *Qualified Individuals* for at least two years after an employee leaves.

Records that relate to the general adequacy of the equipment or processes being used by a facility, including the results of scientific studies and evaluations, must be retained by the facility for at least 2 years after their use is discontinued.

21 CFR 507.208 Requirements for record retention

- (c) Except for the food safety plan, offsite storage of records is permitted if such records can be retrieved and provided onsite within 24 hours of request for official review. The food safety plan must remain onsite. Electronic records are considered to be onsite if they are accessible from an onsite location.
- (d) If the plant or facility is closed for a prolonged period, the food safety plan may be transferred to some other reasonably accessible location but must be returned to the plant or facility within 24 hours for official review upon request.



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Off-site record storage is permitted if records can be retrieved and provided onsite within 24 hours of request for official review, except that the Food Safety Plans must remain onsite. Electronic records are considered onsite if they are accessible from an onsite location. If the facility is closed for a prolonged period, the Food Safety Plan may be transferred to some other reasonably accessible location but must be returned to the facility within 24 hours for official review upon request.

21 CFR 507.212 Use of existing records

- (a) Existing records (e.g., records that are kept to comply with other Federal, State, or local regulations, or for any other reason) do not need to be duplicated if they contain all of the required information and satisfy the requirements of this subpart. Existing records may be supplemented as necessary to include all of the required information and satisfy the requirements of this subpart.
- (b) The information required by this part does not need to be kept in one set of records. If existing records contain some of the required information, any new information required by this part may be kept either separately or combined with the existing records.



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Many facilities have existing records (such as hazard analysis and critical control point (HACCP) plans) that may meet the requirements of 21 CFR 507, and it is acceptable for those records to be used to prevent duplication. These records may need to be supplemented, but the new and existing records may be combined or maintained and stored separately. The rule is flexible as to how the record is documented, as long as the requirements are met.

§ 507.215 Special requirements applicable to a written assurance

- Any written assurance required by this part must contain:
 - Effective date
 - Printed names and signatures of authorized officials
 - Applicable assurances
- Written assurances for when the facility is not required to implement a preventive control include
 - Acknowledgment that the facility that provides the written assurance assumes legal responsibility to act consistently with the assurance and document its actions.
 - Provision that if the assurance is terminated, responsibility for compliance with the applicable provisions reverts to the manufacturer/processor on the date of termination.



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Finally, any written assurance required by this part must contain the effective date, printed names and signatures of those individuals involved, and applicable assurances. The written assurances for when the facility is not required to implement a preventive control must include acknowledgement that the facility that provides the written assurance assumes legal responsibility to act consistently with the assurance and document its actions and a provision that if the assurance is terminated, responsibility for the compliance with the applicable provisions reverts to the manufacturer or processor on the date of termination.

Regulation Overview Summary

The full regulation, 21 CFR Part 507 – Current Good Manufacturing Practice, Hazard Analysis, and Risk-Based Preventive Controls for Food for Animals, is in Appendix 1.

- Sections include
 - Subpart A General Provisions
 - Subpart B Current Good Manufacturing Practice
 - Subpart C Hazard Analysis and Risk-based Preventive Controls
 - Subpart D Withdrawal of a Qualified Facility Exemption
 - Subpart E Supply-Chain Program
 - Subpart F Requirements Applying to Records That Must be Established and Maintained

*Underlined subparts have been reviewed here. Other subparts will be reviewed in Ch. 2 to 10.



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That ends the heavy regulatory text covered in this chapter. The full regulation can be found in Appendix 1. Subparts A, D, and F have been addressed in this chapter. The next chapter will focus on the requirements of subpart B: Current Good Manufacturing Practice requirements.

Chapter 1

<u>NOTES</u>		
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