How FSMA Impacts Pest Control in the Food Industry



# Objectives

- Explore the impact of the Preventive Controls Rule for Human Food on pest management in food manufacturing and distribution.
- Discuss ways to successfully meet these challenges.



#### Content

- What the FDA says
- What has changed and what has not
- The "teeth" of FDA's food safety law
- The word "may" explained
- Preventive Controls Rule challenges for pest management



	FDA says
	"The FDA Food Safety Modernization Act (FSMA), the most sweeping reform of our food safety laws in more than 70 years, was signed into law by President Obama on January 4, 2011. It aims to ensure the U.S. food supply is safe by shifting the focus from responding to contamination to preventing it."
	AIB Day 1970 Base 1970
_	What Changedand What Has Not
	From Reaction to Prevention From 402(a)(3) to 402(a)(4)
	(3) A food <i>shall</i> be deemed to be adulterated if it consists
	in whole or in part of any filthy, putrid, or decomposed substance, or it is otherwise unfit for food.
	(4) A food shall be deemed adulterated if it has been
	prepared, packed, or held <u>under insanitary conditions</u> <u>whereby it may</u> have become contaminated or whereby it
	may have been rendered injurious to health.  AIB
	END STORY
	What Changedand What Has Not
	Laurantian Consuling and December 1
	Inspection, Compliance, and Response
	– From " <u>credible and verifiable information</u> " to "reason to believe"

AIB

The SAHCODHA threshold
 Records are subject to review
 Similar products will be suspect

The "Teeth"	of FDA's Food	Safety	Lav
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- Prevention is not new, but Congress has given the FDA authority to use the criteria more broadly and assertive
  - Documentation review
  - Product detention
  - Recalls
  - Import prohibition
  - Injunctions
  - Litigation / criminal prosecution



## "May" Explained...

§ 117.37 Sanitary facilities and controls

 Pest control. Pests must not be allowed in any area of a food plant. Effective measures must be taken to exclude pests from the manufacturing, processing, packing, and holding areas and to protect against the contamination of food on the premises by pests.

So, what are effective measures?



#### Where are We?

Findings per Category			
	IN	S	U
Category	%	%	%
Adequacy of Prerequisite and Food Safety Programs	27.14	43.63	11.8
Cleaning Practices	13.74	10.37	21.88
Integrated Pest Management	10.74	7.78	19.60
Maintenance for Food Safety	32.30	26.03	36.08
Operational Methods and Personnel Practices	16.04	12.20	11.36

IN = Improvement Needed

U = Unsatisfactory



#### Where are We? **Top Five Unsatisfactory Findings** Category/Standard Maintenance for Food Safety Ceiling and overhead structures 18.75 Equipment and utensil construction 11.65 Cleaning Practices Product zone cleaning 17.61 **Integrated Pest Management** Pest habitat 7.39 Pesticide control 5.68 U = Unsatisfactory AIB

Out of total Findings August 1, 2015-July 31, 2016

#### Where are We? **Top IPM Findings** U Standard Pest habitat 12.28 34.78 Interior rodent monitoring devices 11.92 7.25 Pesticide application documentation - 13.89 Pesticide control 5.56 26.09 Facility assessment 7.65 Bird Control 5.69 5.56 8.70 Signed contracts 6.76 - -5.56 IPM program IN = Improvement Needed S = Serious U = Unsatisfactory Out of total Findings August 1, 2015-July 31, 2016

# "May" Explained...

- Effective measures to:
  - Exclude
  - Prevent
  - Protect

Let's take a look



Effective Measures to Exclude / Prevent Pests	
Grounds Meets sanitary requirements?	
Grounds A little overgrown?	
Effective Measures to Exclude / Prevent Pests  Grounds Only during the rainy season  Only water and decaying organic matter?	

# Effective Measures to Exclude / Prevent Pests Grounds We might need it some day! Effective Measures to Exclude / Prevent Pests Plant Effective exclusion measures? Effective Measures to Exclude / Prevent Pests Plant Is there a screen? Why is it open?

# Effective Measures to Exclude / Prevent Pests

#### Plant





Why is it open?

Why is it shut?



# Effective Measures to Exclude / Prevent Pests

#### **Plant and Grounds**



Well-designed, maintained, monitored?



## Effective Measures to Exclude / Prevent Pests

#### Receiving

Sanitary operations?





Effective Measures to Exclude / Prevent Pests	
Warehouse	
It is locked, isn't it?	
AIB	
Date 187	
Effective Measures to Exclude / Prevent Pests	
Warehouse	
Just a spill?	
AIB	
Effective Measures to Exclude / Prevent Pests	
Production	
Why covers?	

Effective Measures to Exclude / Prevent Pests	
Production It is just a temporary repair with corrugated carton.	
Effective Measures to Exclude / Prevent Pests  Floors What happened to maintenance?	
Effective Measures to Exclude / Prevent Pests  Floors I left my trails, what else do you want?	

Effective Measures to Exclude / Prevent Pests	
Floors Well-designed and maintained?	
Well designed and maintained:	
AIB	
Effective Measures to Exclude / Prevent Pests	
Ceilings and Overheads We can see the sky!	
The same see the say.	
AIB	
Effective Measures to Exclude / Prevent Pests	
Ceilings and Overheads We contained the roof leak!	
AIB.	

Effective Measures to Exclude / Prevent Pests	
Receiving and Shipping Do pests take rides?  ABB	
Effective Measures to Exclude / Prevent Pests	
Any connection to pest issue?	
Effective Measures to Exclude / Prevent Pests	
Chemical Control Is it under control?	

AIB INTERVENCE State 1919

Question	
Is there anything else important for pest management under the Preventive Controls	
Rule?	
Let's explore!	
AIB	
The Challenge of Subpart C: HARPC	
Requires:  • Identification of "known or reasonable foreseeable hazards" associated with  • Product (raw materials, ingredients, rework,	
and finished product)  • Process  • Manufacturing environment	
	-
AIB	
The Challenge of Subpart C: HARPC	
Requires:     Documentation of such hazards	
<ul> <li>Utilization of science and risk analysis to:</li> <li>Define appropriate preventive controls (PCs)</li> <li>Identify who will apply the PCs and be held</li> </ul>	
<ul> <li>accountable</li> <li>Manage the PCs in an <u>adequate</u> manner</li> <li><u>Records</u>: document application of management</li> </ul>	
elements	
AIB	

# The Challenge of Subpart C: HARPC Question -What does this summary of Subpart C of the PC Rule mean for pest management? The Challenge of Subpart C: HARPC • What science is relevant? • How is the scientific knowledge applied in different types of facilities? The Challenge of Subpart C: HARPC How is an effective pest risk assessment undertaken in a food manufacturing and distribution environment?

#### The Challenge of Subpart C: HARPC

- What are the <u>basic preventive measures</u> and how are these applied in an effective manner?
- How to deploy and manage an initial comprehensive pest monitoring system?



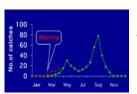
## The Challenge of Subpart C: HARPC

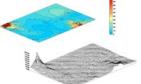
- How to set up and defend specific inspection frequencies?
- Why and how to adjust the inspection frequencies?
- Why, how, and when to change the basic monitoring system?



#### The Challenge of Subpart C: HARPC

How to do predictive analysis and differentiate between acceptable and nonacceptable?







The Challenge of Subpart C: HARPC
How to deal with repeat issues?
<ul> <li>How to defend "programmed" pesticide applications?</li> </ul>
AIB
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The Challenge of Subpart C: HARPC
Are the records audit proof?
• Who, how, and when will records be provided
to the FDA, if requested?
ALB
The Challenge of Subpart C: HARPC
How is the value of prevention demonstrated?
<ul> <li>How is facility management convinced that prevention is an <u>investment</u> with a return and</li> </ul>
not an annual cost to be minimize?
ATD

#### **Key Takeaways**

- <u>Sanitary conditions</u> is the key criteria by which plants will be judged = 402(a)(4)
- The use of <u>science</u> and <u>risk assessment</u> is essential for an effective Pest Management Program (PMP).
- The PMP is not a static tool.
- <u>Records</u> must demonstrate the true conditions under which the product was manufactured and are subject to review by the FDA.
- Convincing management that <u>prevention</u> pays is absolutely essential.



Questions
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