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### WHAT IS FSMA?

- FSMA: Food Safety Modernization Act
- Signed into law on Jan. 4, 2011 President Obama
- Expands FDA's authority to regulate the U.S. food supply
  - Mandates that FDA create a <u>new prevention-based regulatory</u> <u>system</u> to ensure the safety of food/feed products.
  - Feed is considered food per the Food, Drug and Cosmetic (FD&C)
     Act
  - Requires FDA to develop and issue more than 50 regulations and/or guidance documents over the next three-plus years.



### PROPOSED RULE

- October 25, 2013 proposed regulations were released for public comment:
  - CDFA submitted official comments to the Docket on March 28, 2014
- 21 CFR Part 507:
  - Current Good Manufacturing Practices and Hazard Analysis and Risk-Based Preventive Controls for Food for Animals.



# FOOD SAFETY MODERNIZATION ACT: Legislative Intent

- Requires U.S. feed facilities to have a <u>documented</u>, written food/feed safety plan that:
  - Evaluates hazards
  - Implements risk-based preventive controls
  - Performs monitoring activities
  - Documents corrective actions
  - Performs verification activities
  - Establishes and maintains records



## SUMMARY OF REQUIREMENTS

- Establishing, for the first time, Good Manufacturing Practices for ALL animal food.
  - Previously established cGMP's were only required for certain types of medicated feed manufactures.
  - No distinction between livestock feed and pet food manufacturing
- Hazard Analysis and Risk-Based Preventive Controls:
  - Each facility will be required to implement a <u>written</u> food safety plan that focuses on preventing hazards in animal feed and human food.



## WHO IS COVERED?

- Facilities that manufacture, process, pack or hold animal food
- In general, facilities required to register with FDA under sec. 415 of the FD&C Act
- Applies to domestic and imported food
- Some exemptions and modified requirements are being proposed – very limited.



## HUMAN VS. ANIMAL PREVENTIVE CONTROLS

- Very similar with some exceptions
- Animal PC established CGMPs for all feed
- Human PC modifies some CGMPs
- Allergens not a hazard in Animal PC
- Animal PC does include nutrient imbalances
- Different definitions of very small business



- Personnel
- Plant and grounds
- Sanitary operations
- Sanitary facilities and controls
- Processes and controls
- Equipment and utensils
- Warehousing and distribution



- Personnel
  - Follow good hygiene practices
  - Protection of food from contamination from personal effects
- Plant and grounds
  - Including proper cleaning, maintenance, and pest control



- Sanitary operations
  - Includes maintaining clean and sanitary conditions of food contact surfaces, proper use and storage of toxic cleaning compounds, and exclusion of pests
- Sanitary facilities and controls
  - Such as the plant's water supply, plumbing, and toilet and hand-washing facilities



- Processes and controls includes:
  - Following adequate sanitation principles
  - Proper labeling of ingredients and finished animal food
    - Ensuring the safety of raw materials
  - Prevention of contamination of animal food during processing



- Equipment and utensils
  - Includes the cleaning and maintenance of such items and protecting animal food from contamination
- Warehousing and distribution
  - Includes protecting animal food against contamination and deterioration



# QUALIFIED INDIVIDUAL

- Must have 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



## OTHER FACTS: FSMA

- Re-register every two years starting in 2012
  - Requirements for revoking registration established
  - Re-registration for your firms will need to occur October 1 –
     December 1, 2014.
- FSMA provides for FDA to collect a variety of fees
  - Support and establish 3<sup>rd</sup> party certification
  - Re-inspection fees for domestic and imported products
    - Re-inspection hourly rate for domestic travel: \$237.00
    - Re-inspection hourly rate for foreign travel: \$302.00



# FDA Information Available

- Website:
  - http://www.fda.gov/fsma
- Subscription feature available
- Send questions to FSMA@fda.hhs.gov





# FSMA & the Feed Inspection Program

- Recognize that the branch needs to evolve
- Know that US FDA's FSMA implementation will occur over the next
   2-3 years
- Identified areas of opportunities for increased effectiveness and change
- Realize that under the current CDFA "umbrella" law/regulation changes will need to occur.
- The Feed, Livestock Drugs and SAFE programs will be working through this transition in workload/organizational activities to assist the industry in compliance with FSMA.



# AMENDMENT TO THE COMMERCIAL FEED LAW:

#### IN 2013:

SEC 14903: The secretary shall establish, by regulation, such good manufacturing practices, Hazard Analysis and Preventive Control measures, as he/she determines are reasonably necessary to carry out the purposes of this chapter. The good manufacturing practices, Hazard Analysis and Preventive Control measures, including verification and validation activities for all commercial feeds, and additives regulation for additives, including medicated feed premixes and medicated feeds shall be based upon those established pursuant to the federal food and drug laws and regulations, unless the secretary determines that such laws and regulations are not appropriate to the conditions which exist in this state. The regulations adopted pursuant to this section shall assure that drug usage under this chapter shall not conflict with the provisions of Chapter 4 (commencing with section 14201) of this division.

# Feed Inspection Program – Current Field Operations

Feed Inspection Program – Field Operations	SAFE Program			
Feed Sampling	CA GMP Inspections			
CA GMP Inspections	SAFE Audits			
BSE Inspections	HACCP Audits			
TR Investigations	High Violation Binders			
Livestock Drug Inspections	Mixer Profiles - at feedmills			
Complaint/Follow-up	Mixer Studies - on farm			
Violation Follow-up	Outreach/Education			
Quarantines	Workshops			
Label Review/Inspection/Activities	On-site consulting			
Training (staff)	Feed Safety Results			
Delinquent Feed Licensee follow-ups				



# FSMA & the Feed Inspection Program

The Feed Inspection Program will encompass these three critical areas:

1. Process Verification	2. Enforcement and Compliance	3. Industry Outreach/Training (SAFE)		
Process Verification Inspections (CGMP's and Prerequisite program)	Label Review/Inspection/Activity	On-site Training/consulting		
Tissue Residue Investigations	Delinquent Feed Licensee follow-up	Workshop		
BSE/FEED Inspections	Feed Sampling (1000)	Mixer Profiles/Studies		
FDA Regulations Audits	Complaint follow-up	Feed Safety Sample Results		
Verification Sampling (200)	Quarantine	Surveys stats etc		
Violation follow-up	Violation follow-up	High Violations Summary		
Training	Livestock Drug Inspections	Training/meetings 20		



### FEED INSPECTION PROGRAM

#### 1. Process Verification Workload:

Re-aligning the Feed Program focus on "front-end" inspections these will be conducted by FDA Commissioned Special Investigators

- They will Include:
  - » Incoming ingredients review
  - » Production record review
  - » Assurance of SOP's at all critical areas of manufacturing
  - » Process controls review
  - » Sampling for verification of identified hazards and other feed safety related issues
  - » contract work: Tissue Residue Investigations, BSE Inspections and FDA Regulations (FSMA) work
- Performing process verification work, as well as supporting the SAFE Program in working with feedmills to gain compliance with FSMA regulations
- Investigators trained to perform HACCP and Process Verification Inspections
- Starting with the 55 "high risk" firms



## SAFE PROGRAM

### 3. Industry outreach/training

- SAFE will continue to have a consulting role with all feedmill facilities who fall under the FDA regulations (FSMA)
- Provide the CA feed industry with the minimum compliance standards developed by FDA's Feed Safety Alliance and will facilitate workshops or "Train-the-Trainer" seminars
- Research on new feed ingredients and other feed/food safety related issues, through a Technical Advisory Sub-Committee
- Provide training for proper on-farm antibiotic use, for the dairy industry
- SAFE audits will now be conducted by "Process Verification" staff



# NATIONAL WORKING GROUP PARTICIPATION

- US FDA Animal Food and Feed Safety Alliances (2) Mike Davidson represents CDFA and AAFCO on the National Alliance. The purpose of this alliance is to develop outreach and training material to the feed industry, pertaining to FSMA regulations.
- US FDA Animal Food GMPs Alliance Jenna Areias represents CDFA on the national Alliance. The purpose of this alliance is to develop training and outreach materials to the feed industry, specific to the new cGMP's.
- US FDA National Animal Food Safety Systems (AFSS) Committee Johna Areias represents CDFA on this national committee. Its Purpose is to provide education and training; conducting research; performing inspections, taking enforcement for ensuring the removal of unsafe feed from the marketplace and to ensure compliance with Agency regulations; and establishing partnerships with other agencies with responsibility for feed safety



# IMPLEMENTATION OF STANDARDS FOR REGULATORY PROGRAMS

AFRPS – Animal Feed Regulatory Program Standards

- 1. REGULATORY FOUNDATION
- 2. TRAINING
- 3. INSPECTION PROGRAM
- 4. AUDITING
- 5. FEED-RELATED ILLNESS or DEATH and EMERGENCY RESPONSE
- 6. ENFORCEMENT PROGRAM
- 7. OUTREACH ACTIVITIES
- 8. PLANNING and RESOURCES
- 9. ASSESSMENT and IMPROVEMENT
- 10. LABORATORY SERVICES
- 11. SAMPLING PROGRAM



# RISKASSESSMENT: CA Firms

Criteria is as follows: 429 in-state firms

**High Risk Firm: (55 identified)** 

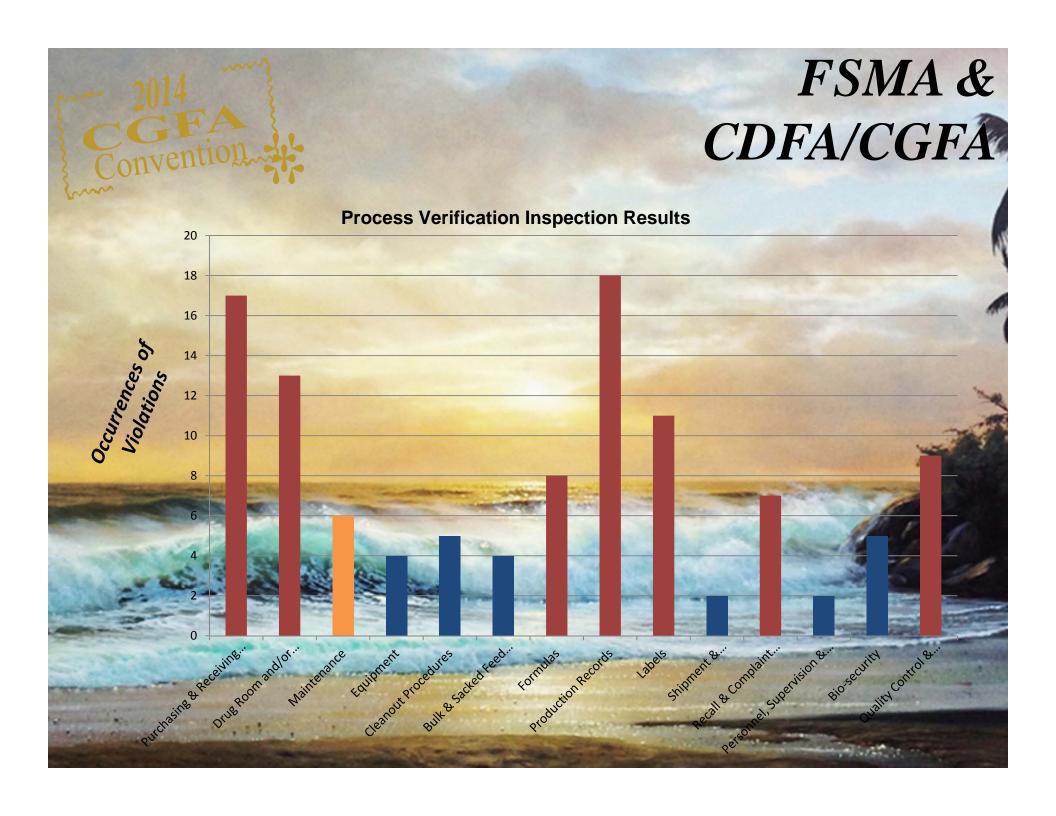
- Mix two or more ingredients and use drugs/medications
- Vitamin/mineral premix's
- All regulated under CA-GMP's
- Handle prohibited materials

Medium Risk Firm: (244 identified)

• Any firm that mixes two feed ingredients or more and <u>does not</u> use drugs/medications or concentrated selenium products

Low Risk Firm: (132 Remained)

 Any firm that sells or distributes whole commodities including co-products from food processing facilities







#### SAFE Feedmill Flow Diagram Sack/Tote Receiving **Bulk Receiving** Liquid Receiving Screen or strainer Screen/Magnets Warehouse Storage **Bulk Storage** Liquid Storage Drug Room/Hand-Grinder Grain add Area Rolling Magnet Cooler Mixer/ Batching Pellet mill Cooler Finished Feed Storage Sack-off **Bulk Load out** Finished feed Sack Warehouse





- Facilities will be required to conduct and document a written analysis of hazards to evaluate:
  - "Known or reasonably foreseeable hazards that may be associated with the facility"
  - Biological, chemical, physical and radiological hazards
  - Includes hazards that occur naturally, and those that "may be intentionally introduced, including by acts of terrorism."

# HAZARD GUIDE: IDENTIFYING FEEDMILL SPECIFIC HAZARDS

#### Biological

- Viral, prior/prion and bacterial infectious diseases
- Salmonella
- E-coli 0157
- · Food borne contaminants
- Avian Influenza/Newcastle disease
- Parasitic Agents
- Campylobacter
- Clostridium Botulinum
- Clostridium Perfringens
- Staphlococcus Aureus

#### Chemical

- Aflatoxins/Mycotoxins
- High Risk Minerals Selenium
- Medication/drug residues
- Heavy metals
- Copper Sheep
- Pesticide residues
- Nitrates
- Toxic Weeds Alkaloid

- Gossypol Free
- Non-Protein Nitrogen Horses, Rabbits, Pigs
- Dioxins
- Allergens (Not required under FSMA)
- Color Additives
- Lubrication/cleaning/sanitization agents

#### Physical

- Any foreign object/clips/twist-ties
- Glass
- Metal
- Stones
- Nuts/bolts
- Wood
- Plastics





### When building your Hazard Analysis, remember:

- Complete it for every manufacturing step and/or Category of ingredients.
- Clear and easy to follow through entire manufacturing process, use a flow diagram to help organize your thoughts, if needed.
- Identify both animal and human hazards.
- Refer to "Severity: Likeliness to Occur" diagram
- Refer to your prerequisite programs and use them to your advantage!



Recommendation for <u>FSMA</u> plan at a Feed mill

Considerations for being addressed in HACCP plan

**Severity** 

High

H-R

H-L H-

Н-Н

Medium

M-R M-L

M-M

M-H

Low

L-R

L-L

L-M

L-H

Remote

Low

Medium

High

### Likelihood of Occurrence

\* HACCP: A Systematic Approach to Food Safety

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#### **Product:**

INGREDIENT/ PROCESSING STEP	POTENTIAL HAZARD INTRODUCED	IS THIS A SIGNIFICANT HAZARD? SEVERITY:  LIKELIHOOD  ANIMAL HUMAN			JUSTIFICATION F	WHAT CONTROL MEASURED DO YOU HAVE IN PLACE TO PREVENT		
	Biological	Severity	Likelihood	Severity	Likelihood			
	Chemical							
	Physical	1027			-			
		16.64	0	9	0.000		1.0	
	Radiological	-	1		-	N WAR		
	-	-	***	2004	A THE STATE OF			

Section 3. FSMA

## HAZARD ANALYSIS EXAMPLE FOR CORN

Product: Corn, (Whole, Flaked, Crimped)

	INGREDIENT/ PROCESSING	POTENTIAL HAZARD	IS THIS A SIGNIFICANT HAZARD? SEVERITY: LIKELIHOOD				JUSTIFICATION FO	WHAT CONTROL MEASURE DO YOU HAVE IN PLACE TO		
	STEP			ANIMAL HUMAN			ANIMAL	PREVENT HAZARD:	И	
	1A Receiving, Bulk Ingredients	<b>Biological</b> BSE	<b>Severity</b> High	<b>Likelihood</b> Low	Severity Moderate	<b>Likelihood</b> Low	BSE contaminated feed that could lead to an outbreak of disease.	No significant risk	Approved Supplier List Truck inspection upon arrival.	1
		Contaminants from rodent or bird excrement	Low	Low	Low	Low	All feed and ingredients coming from an outside source will be from a supplier that produces a safe and clean feed.			7
		Chemical Pesticide residues	High	Low	High	Low	Contaminate feed leading to animal sickness	Pesticide residues can reside in meat and milk products and can lead to	Approved Supplier List Testing upon arrival	No.
8		- The Control of the		The same of the sa	No.	A STATE OF THE STA	The state of the s	human illness		
		Naturally occurring toxins	Moderate	Low	High	Low	Climate not conducive for fungal/Mycotoxin growth	Toxins through milk can lead to toxicity, causing illness	Limits placed on naturally occurring toxins such as Mycotoxins, as well as scheduled testing	
		Physical Trailer previously hauled trash,	Moderate	Low	No significant risk	No significant risk	Physical non-food objects in feed could lead to animal injury	No significant risk	Approved Supplier List Visual Inspection	-
THE WAY	- DOME	glass, or metal shards.								
No. of Lot	A STATE OF THE PARTY OF THE PAR	Radiological No significant risk						***		

Ingredients that have a completed Hazard Analysis	Ingredients	hat have a	completed	Hazard Anal	ysis
---	-------------	------------	-----------	-------------	------

	ts that have a complete		
Baled:	Ammonium Chloride	CR Corn For Tx Sys      Distance time Footb	1
Suncured Alfalfa	Apple Aid     All Pro Biotics	Diatomatious Earth     Dicalcium Phosphate	1
Suncured Forage Hay (oat, wheat, barley)	All Pro Biotics	Dicarcium r nospilate	
Bulk:	Ammonium Sulfate	Diamond V XPC	
Alfalfa Pellet	• Animate	Diamond V Yeast XP	
Almond Hulls	Ascirbic Acid 100	DL- Methionine	
Bakery	Availa 4	Dried Molasses	
Barley (Whole, Flaked)	Availa Cu 100	DTI 3 MVP Premix	
Canola Meal/Pellet	Avizyme 1320	Eddi 42 Gm/Lb	
Cargill PI Milk Plus	Beef Vitamin Premix	• Energy I	
Corn (Whole, Flaked Crimped)	Beet Pulp Pellets	Energy II	
Corn Germ Meal	Bentonite Sod	• Extruded Soybeans	
Corn Gluten 60%	Bio-Chlor	• EZ-Keep	
Corn Gluten Feed	Bioplex Zinc 15	• Fat Sprayed	
Cottonseed, Whole	Biotin 1%	Feather Meal	
Dairy Grain	Biotin 100 Mg/Lb	Ferrous Sul 30	
Dried Distillers Grains w/Solubles	Blood Meal (Pork or Beef)	• Fibrozyme	
Ground Grain	Buffer Pellet	Fish Meal	7
Linseed Meal/Pellet	Broiler Vitamin Premix	Fish Meal Sealac	
Milo-Whole	Calcium Carbonate	Fish Premix	
Oats (Whole, Ground, Crimped)	Calcium Iodate	Flavor Plus NM	
Rice Bran	Calcium Sulfate	Garlic Powder	
Safflower Meal	• 885 Calf 2X	Gold Dye	
Soybean Hulls/Pellet	Calf Pl R160	Gold Flavor	
Soybean Meal	Carniking 10%	Green Flavor	1 40
Soy Best	Carophyll Red	Green Dye	
Soy Plus	Carrots Dehydrated	Herd Builder Flavor	
Sunflower Meal	Choline Chloride 60%	36% Horse Pellet	
Wheat Midds, Midds Pellet	Chromium Tripicolinate	• 776- Horse PMX5098	Manager III
Wheat Starch	Cobalt Carb 46%	• Iron Carbonate	William Inches
The same of the sa	Cobalt Sulfate 7.5% Premix	Iron Oxide- Brown	AVE CO
Bagged:	Copper Carbonate	Iron Oxide- Red	
Active Dry Yeast	Copper Oxide-75	Iron Oxide- Yellow	
Amaferm	Copper Sulfate	Kerry Kreeme	

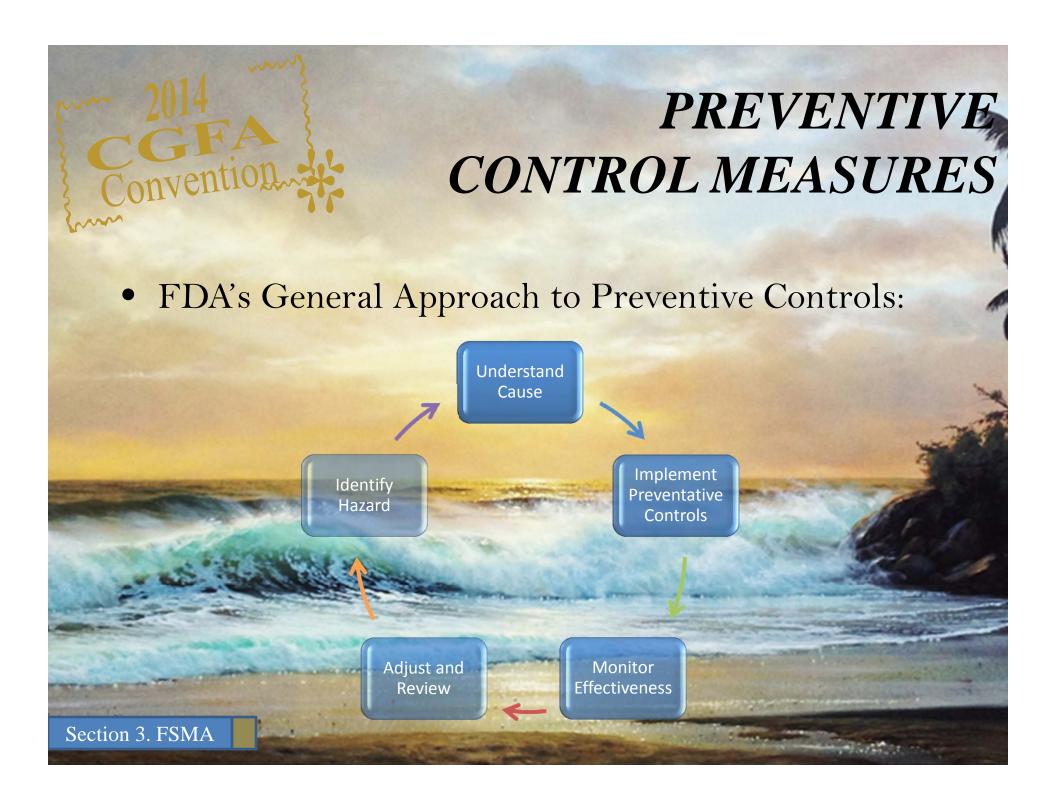
William Co.

#### Ingredients that have a completed Hazard Analysis

- Lactomil
- Lacto Sac
- Lactose
- Lamb Premix Pellet
- Layer Vitamin Premix
- Limestone
- L-Lysine HCL
- L-Threonine
- Magnesium Oxide
- Magnesium Sulfate
- Magnesium Sulfate 9.9%
- Manganous Oxide-60
- Mega Lac R
- Mega Lac Plus w/ 6% Methionine
- MGK Chelate Trace Mineral
- MGK Cheated
- Micro Aid
- Milk Plus Premix
- Min Ad
- Mono-Dicalcium Phosphorous
- Mono Prop
- MTB 100
- Niacin-99%
- Oyster Shell
- Oyster Shell Flour
- Papain Enzyme
- PCC Custom Calf Blend
- PCNS Dairy Fortifier
- Pell Tuff
- Pellunite
- Phosphorous Monoammonium
- Phosphorous Monosodium 25
- Pig Nectar
- Potassium Carbonate
- Potassium Ch50
- Potassium lodide
- Potassium/Magnesium/Sulfate
- Poultry Trace Mineral Premix
- Protein Pellet

- Quadra 4 Alltech
- ReaShure Choline
- Red Flavor
- Rout Mold Inhibitor
- ROP- Royal Optimum Powder
- Salt
- Sana Kreeme
- Santoquin 66.6%
- Selenium 0.06%
- Selnosource AF 2000
- Sheep Trace Mineral
- Sodium Sesquicarb
- SoyChlor
- Stock Joy Flavor
- Storagemate Dry
- Thiamine Mono
- Trace Mineral Premix
- Turkey Vitamin Premix
- UNF-40
- Urea
- Vitamin A 30M U/G
- Vitamin A 650M U/G
- Vitamin D3 30 M U/G
- Vitamin D3 500K IU
- Vitamin E 20 M U/Lb
- Vitamin E 25%
- Vitamin E 125
- Vitamin E 227M U/Lb
- Vitamin/Mineral Pellet
- Wheat Starch
- Whey Powder
- Yea Sac
- Yeast-Dried Brewers
- Yucca Powder
- Zinc Oxide- 72
- Zinc Sulfate
- Zin-Pro 100
- Zinpro 4 Plex 'C'

- Liquid:
- Aliment
  - EZ Flake
- EZ Glo 3-70
- Fat
- Molasses
- Soy Oil
- Vegetable Oil
- Water
- Medicated:
- Amprol 25%
- Amprol Ethorpbate
- Aureozol- 500
- Bac MD-50 RX
- Bambermycin 4G
- BMD-60
- Calf Pellet 25 Rum 1400g RX
- Carbadox 10
- Coban- 60 RX
- CTC- Aureo 50 RX
- Decoguinate 6%
- Fenbendazol 20%
- Lasalocid 68G RX
- Linco-50
- 3 Nitro 20
- Poloxalene 53%
- Pyram Tart- 48
- Rabon 2.1%
- Rumensin 90g (Monesin) RX
- Salinomycin 60 G
- Tylosien-40 RX





# HAZARD ANALYSIS & RISK-BASED PREVENTIVE CONTROLS

Ingredients and/or processing steps that have a hazard that is likely to occur and have a high severity should be assigned a preventive control.

 Preventive controls should be implemented to minimize, eliminate, or monitor these hazards.



Section 3. FSMA



### PREVENTIVE CONTROL MEASURES

- For Example:
- Medicated feed preventive controls would be identified by:
  - Daily inventory reconciliation
  - Flush/sequencing/ cleanout procedures
  - Medicated feed SOP's established and being followed.



### PREVENTIVE CONTROL MEASURES

INGREDIENT/ PROCESSING	IDENTIFIED HAZARD	PREVENTATIVE MEASURE IN	MONITORING		ACTIVITIES		RECORDS
STEP		PLACE	WHAT	WHO	FREQUENCY		
				-			
A STATE OF THE PARTY OF THE PAR			Million to the				
		1	The same of				The same of the sa
	AND ESTABLISHED		-				-
				A SECOND			1
-0383A	s. street	A. C. C.	27900			1000	
	R. O.	ALL SECTION	DALLAS	Co. Laborator	Esta Wallet		ZC T
	-					- CONTRACT	The state of the s
The state of the s	-	STATE OF THE PARTY	AND STREET	-	No. of Concession,	Colored State	
-							T-DGMANQTVD
						70-1-1-1	
STATE OF SHARE	OR OTHER DESIGNATION OF THE PERSON OF THE PE	Section Control of the Control of th	W. C. C.		AND REAL PROPERTY.	Miles Carrents	

### PREVENTIVE CONTROL MEASURES

INGREDIENT/ PROCESSING	IDENTIFIED HAZARD	PREVENTATIVE MEASURE IN		MONITORING	No. of Contract of	VERIFICATION	RECORDS
STEP		PLACE	WHAT	WHO	FREQUENCY	ACTIVITIES	
Ingredient: Section 3, pages: ALL Section 4, pages: 1,2,4,6- 23,27-30  Processing: Section 10, pages: 1,2,4,10,11,16	Mycotoxins/ Aflatoxins/ Fumonisin	Yes	Critical Control Point # 1	Plant Manager  Designated  Employee	Twice Yearly	Samples sent to outside lab	Kept for 2 years
Ingredient:			Sampling	115000	8 hours of	In house testing	Kept for 2
Section 6,	CHEROMETRIC CONTRA	MATERIAL STATE OF THE STATE OF	Testing		Boiler use	in nouse testing	years
Processing: Section 10, pages: 8, 38	Water Quality	Yes	City Water Quality Report	Plant Manager  Designated  Employee	Annually	City Water Testing	Printed Annually
Processing: Section 10, pages: 9,20,21, 22,40	Magnet Efficiency	Yes	Magnet Efficiency Test	Plant Manager  Designated  Employee	Twice Yearly	In house testing	Kept for 2 years



### MONITORING ACTIVITIES

- All Preventive controls must have a monitoring step.
- Parameters should be set for each hazard, whether it is zero tolerance or has a range of acceptance.
  - EX: 20 ppb for aflatoxin level would be a parameter
- All monitoring must be recorded and reviewed regularly
- All preventive controls will have a SOP that describes the monitoring that needs to take place.



### CORRECTIVE ACTIONS

		Disposition of Product:
Corrective Action Rep	ort	Disposition of Product:
	CAR#	If human error, employee's name:
Person Initiating the Corrective Action:		Describe immediate corrective action:
Type of Corrective Action:		
Time and/or Date of Incident:		Probability of the defect / event recurring (Low / Moderate / High)
Corrective Action given to:		Possible severity. ( Low / Moderate / High )
		How will this be prevented from happening again:
Description of Issue:		The will this be prevented from happening again.
		-
-		
		Corrective Actions must be rectified within one week of being documented
		Employee signature:
		Date
		Person Carrying out Corrective Action with Employee
Affected Product(s): Formula		Signature:
Name		Date:
		Corrective Action Verified Complete by
Lot #/Order #		. ,
Amount Adulterated		Signature:
Corrective Action Record given to:		Date:
Potential Hazard:		
Identify root/basic cause(s):		

- In the event that a processing error occurs or a parameter is not met:
  - Corrective actions should be documented.
  - Form should outline the who, what, where, etc. of the failure
  - Document how it was corrected and by whom.



### CORRECTIVE ACTIONS

- Corrective actions are not a failure of your plan.
- They are proof that your FSMA plan is working.
- Shows your ability to catch your mistakes before they leave the facility, which would then result in a recall.
- An effective plan will always have corrective action



# VERIFICATION OF PREVENTIVE CONTROLS

- Example of Medicated Feed Verification procedures should include:
  - Flush verification
  - Mixer profiles
  - Finished feed sampling and analysis
  - Production tonnage compared to load-out scale or bag count
  - \*\*\*These steps are required for every hazard indentified in the manufacturing process.\*\*\*





## EXAMPLE: Verification Schedule

ACTIVITY	FREQUENCY	RESPONSIBILTY	REVIEWER
Verification Activities Scheduling	Annually or upon HACCP/FSMA System change	Person designated by the HACCP/FSMA Coordinator	Plant Manager
Verification of CCP Monitoring as described in the plan (Ex: monitoring of time & Temp. for cooking meat & bone meal)	According to HACCP/FSMA Plan	According to HACCP/FSMA Plan or Plant Supervisor	HACCP/FSMA Plan designated Quality Assurance employee
Review of monitoring, corrective action Records	Monthly	HACCP/FSMA designated Quality Assurance employee	HACCP/FSMA Team
Comprehensive HAACP/FSMA System Verification	Annually	Independent Experts/SAFE Program Audit	Plant Manager

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### RECALL PLAN

- A recall plan should include:
  - A standardized form that is easily followed
  - Critical steps in performing the recall should be identified
  - Key individuals that should be notified and involved

Document progress of your recall and conclusion and findings.

 Routinely conduct mock recalls at your facility

Lot tracking

The better your lot tracking system is, the less feed you will need to recall.

Section 3. FSMA



# FDA TIMELINE FOR IMPLEMENTATION:

#### **FSMA** Timelines:

- Mandated by a court order Final rule to be published:
   August 30, 2015
  - Businesses will have 1 year to fully comply
  - Small businesses will have 2 years to fully comply
  - Very small businesses will have 3 years to fully compl
- Where do you and your company fit into this picture??



### HOW DO YOU START?

Your role as management:

Step 1 – Send a clear message of commitment and support

Step 2 – Establish your FSMA team (these are usually your "Hi-Per/Hi-Po" employees)

Step 3 – Complete a review of all pre-requisite programs and identify areas of improvement



### HOW DO YOU START?

Your role as management:

Step 4 – Designate your firms "qualified individual"

NOTE – Once all pre-requisite program are in place CDFA can conduct a SAFE audit to verify your firms readiness for Hazard Analysis.

Step 5 – Identify your hazards and establish preventive controls measures.



### HOW DO YOU START?

Your role as management:

Step 6 – Monitor those activities

Step 7 – Validate preventive controls

Step 8 – Review and Retain all records for two years

Step 9 – periodically revisit and revise your food safety plan. This is a fluid document.

NOTE - DOCUMENT EVERYTHING!



