



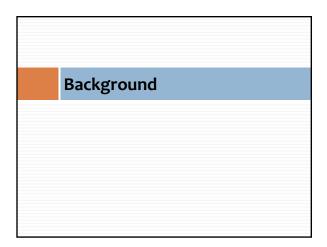
### **Presentation Outline**

- Background
- Regulatory Considerations
- Allergen Control Plan
- Key Elements of Control
- Complaint Handling
- □ What now?
- Resources

# Allergen Awareness Exercise



Write down the contents of your last meal.





# **Food Allergy Facts and Statistics**

- <u>Food Allergen</u> immunologic response that involves IgE antibodies. Symptoms range and vary.
- Food Intolerance/Hypersensitivity adverse response to food limited to gastrointestinal problems
- □ There is no cure for food allergies.
- □ Food allergies are a growing public health concern.

### **Common Food Hypersensitivities**

- Strawberries
- Sulfites
- FD&C Yellow #5
- MSG (monosodium glutamate)
- Lactose
- 🗆 Gluten

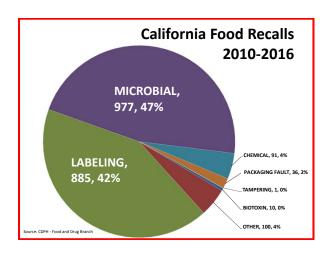


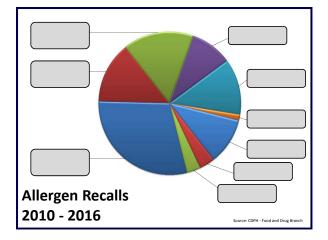
### Gluten?

- Proposed Rule 1/2007, Final Rule 8/2013
- Defines term "Gluten Free" and similar terms
- Establishes 20 PPM threshold
- Use of term is voluntary, threshold is not
- More information at: FDA.gov - search "gluten free"

# Why Increased Attention to Allergens?

- □ Increased awareness consumers and industry
- □ Improved detection methods (ELISA, PCR, etc)
- Trend toward value-added products
- Negative publicity; financial impact; regulatory actions
- Severe adverse reactions





# Impacts?

Increase in Food Recalls

Economic/Financial

Reputation

**Public Health** 



Regulatory Considerations



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# **Compliance and Enforcement**



# State and federal law deem food that is not properly labeled to be misbranded.

Misbranded food can lead to: Notice of Violation Embargo Recall Fines and Penalty



### Allergen Labeling Law: FALCPA

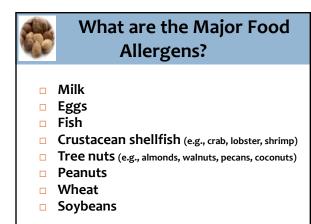
The Federal Food Allergen Labeling and Consumer Protection Act of 2004 (FALCPA) was signed into law on 8/2/2004.

- Food labels must list the food source names of all ingredients that contain any protein derived from the eight major food allergens.
- FALCPA labeling requirements became effective on January 1, 2006.
- > Pursuant to California Health and Safety Code section 110100, FALCPA is adopted as California law.

### **FALCPA Requirements**

Food facilities are required to:

- Comply with practices to reduce or eliminate cross-contact of a food with residues of major food allergens that are not intentional ingredients of the food.
- 2. Ensure that major food allergens are properly labeled on foods.



### **FALCPA Exemptions**

### FALCPA law does not apply to:

- Highly refined oils
- Raw agricultural commodities

### **FALCPA Exemptions**

- Food ingredient exempt under a petition or notification process
  - Petition standard: "... does not cause an allergic response that poses a risk to human health."
  - Notification standard: "... does not contain allergenic protein."
  - Scientific evidence must be provided for FDA's review.

# Allergen Food Label

The name of the food source of a major food allergen must appear in **one of two ways:** 

- In parentheses following the name of the ingredient
   e.g., lecithin (soy), flour (wheat), and whey (milk)
- Immediately after or next to the list of ingredients in a "Contains" statement

e.g., "Contains Wheat, Milk, and Soy"

# **Unrequired Label Statements?**

- ""...." ""...."
- "Produced in facility which also manufactures..."
- "Manufactured on shared equipment..."

### Flavors, Coloring and Incidental Additives

A flavoring, coloring or incidental additive that contains a major food allergen is subject to FALCPA labeling requirements.

### **Allergen Awareness Exercise**

 Did your last meal include any of the eight major food allergens? If yes, which one(s)?

- Milk
- Eggs
- Fish (e.g., bass flounder, cod, etc.)
- Crustacean Shellfish (e.g., crab, lobster, shrimp)
   Tree nuts (e.g., almonds, walnuts, pecans, coconuts)
- Peanuts
- Wheat
- Soy



### FSMA

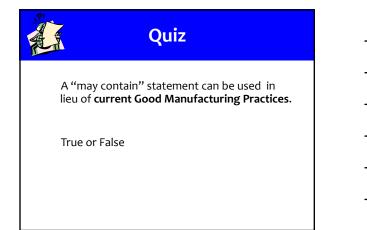
Hazard Analysis Risk-Based Preventative Controls (HARPC)

### **HARPC Food Safety Plans**

- 1. Identify "Significant" Hazards
- 2. Implement Risk-Based Preventive Controls
- 3. Monitor Effectiveness
- 4. Develop Corrective Actions
- 5. Verify Controls Used
- 6. Recordkeeping
- 7. Re-analyze at least every THREE years

Interesting Fact On June 8, 2010, the U.S. Department of Transportation issued a proposal to restrict peanuts on commercial airlines. Later, the agency withdrew the proposal citing federal law that indicates no federal money can be used to provide a peanut free buffer zone or restrict the distribution of peanuts until 90 days after a peer reviewed study is submitted to Congress.

	Quiz
Which of the followin allergen as defined by	g contains a major food y FALCPA?
A. Strawberries	
B. Wheat	
C. Gluten	
D. Casein	



# Quiz

By documenting **"whey"** in the ingredient list of a product which contains whey, the manufacturer has met the requirements outlined in **FALCPA**.

True or False

Allergen Control Plan

# What is it?

### Allergen Control Plan:

- A written document
- Includes effective control measures to minimize allergen crosscontamination
- Prevent misbranding



- Assemble an Allergen Control Team
   Define and assign staff roles and responsibilities
- Establish policies and procedures for allergen control

Seven Key Elements of Control

 Reassess the effectiveness of Allergen Control Plan
 Audits

### Assemble the Team

Research & Product Development



Management
 Quality Assurance
 Purchasing/Distributing

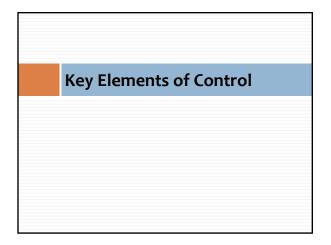
 Manufacturing
 Packaging/Labeling
 Warehousing
 Regulatory Affairs
 Training Officer

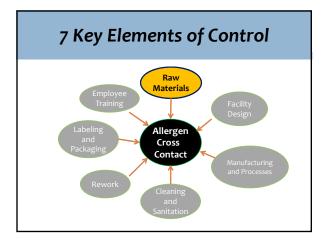














### 1. Raw Materials

### 1. Receiving – establish specifications



### • Audit suppliers and co-packers to ensure compliance with Allergen Control Plan

- Request Certificates of Analyses (COA) or Certificates of Guarantees (COG) for incoming ingredients
- Verify ingredients against Bills of Lading, Purchase Orders, or Specifications

### 1. Raw Materials

### 2. Inspection

- Review the labels of incoming ingredients for the Big 8 food allergens.
- Clearly mark or tag incoming allergenic ingredients using colorcodes, labels or symbols to reduce mix-ups and cross-contact.
- Develop a plan to handle damaged containers, accidental spills, or misuse of allergenic ingredients.



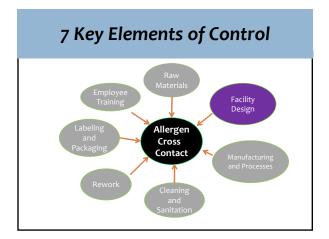


# 1. Raw Materials 3. Storage a Store allergenic ingredients in clearly identified areas or boxes using color-coded labels. Dairy Allergen ENCLISH

### 3. Storage

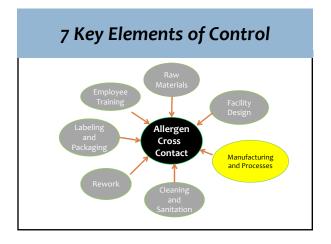
Segregate allergenic raw ingredients in a manner to minimize cross-contamination using the following practices:

- Use dedicated pallets and bins
- Store allergenic ingredients on lower shelves
- Designate specific storage areas for specific type of allergens (e.g., "wheat only")
- Ensure containers are tightly sealed to avoid airborne contamination



### 2. Facility Design

- Traffic flow
- Ventilation/air filtration
- Staging and storage
- Processing lines
- Physical separation or barriers
- Space





# 3. Manufacturing and Processes

1. Dedicate equipment and food contact surfaces (FCS)

Segregate the production areas (conveyors, rooms and facilities) for inprocess food with major food allergens





### **Dedicated Equipment and FCS**

- Use color coding system
  - Ingredients
  - Equipment and utensils that contact allergens
- Create barriers to protect in-process food from cross-contamination via adjacent conveyors, carts or other food processing equipment.

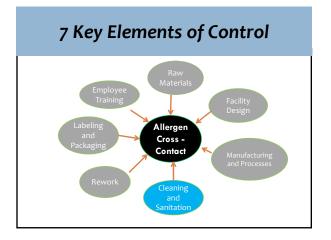
# 3. Manufacturing and Processes

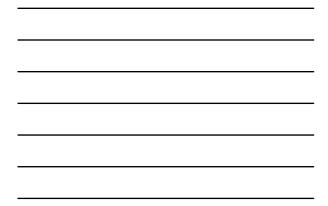
### 2. Production scheduling

- Process food containing allergens longer to minimize changeovers
- Process food containing allergens at the end of the manufacturing run
- Process food containing allergens separately
- Schedule cleaning and sanitation between production to prevent cross-contamination of allergens and non-allergens

# Which is the IDEAL Production Scheduling?







# 4. Cleaning and Sanitation

- Ensure equipment design allows for thorough cleaning, sanitizing and inspecting Avoid dead legs that accumulate food Clean in Place systems
- Follow Sanitation Standard Operating Procedures (SSOPs)
  - Clearly written procedures that are easy to follow
  - Define the scope and schedule for cleaning the equipment, food contact surfaces and the plant
  - Train employees on the cleaning procedures

### 4. Cleaning and Sanitation

### Use appropriate cleaning methods :

- 1. Dry cleaning
- 2. Wet Cleaning rinse

• high pressure water or

- wipe/brush
- scrape • vacuum

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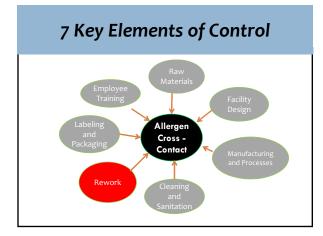
- steam
- . wash
- blow down
- sanitize
- compressed air

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# 4. Cleaning and Sanitation

- Verify sanitary practices through frequent visual inspections
- Define the scope of verification procedures
- Validate cleaning with analytical methods, via the ELISA test kits
  - Define the intention and scope of validation
- Document and review cleaning and sanitizing records
  - Keep detailed records for cleaning, verification and validation
  - Evaluate the allergen cleaning program annually for effectiveness



### 5. Rework

### Clearly label rework

Use color tags, containers, plastic liners or bar coding to document and track reworked product

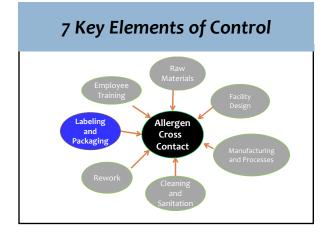
# Use same ingredients or formulation in the reworked products

- Check specifications for allergens
- If rework product calls for reformulation, use the <u>CORRECT</u> labels

# 5. Rework

- Ensure that shared or re-feed systems are adequately cleaned
   Equipment, grinders, food contact surfaces and other shared equipment
- Document rework to allow for proper identification and traceability
  - Rework plan and controls
  - Uses for reworked products
  - Usage records







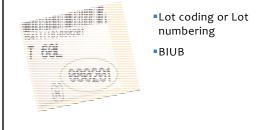


# 6. Labeling and Packaging

- 21 CFR Part 101 Food Labeling
- FALCPA requirements
- Label Control

# 6. Labeling and Packaging

Implement a tracking system that includes:



### Words of Caution!!!

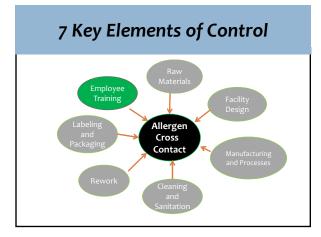


### Advisory labeling

- does not replace the firm's responsibility to prevent allergen cross-contact
- should not be used as a "catch all" statement
- should only be used to describe the potential presence of unintentional allergen after a complete risk-assessment

# 6. Labeling and Packaging

ALLERGY INFORMATION: Consumers with food allergies or other sensitivities, please review the ingredients carefully. All ingredients are wheat free, gluten free, nut free, peanut free, and trans-fat free.



### 7. Employee Training



Staff in direct contact with food, food contact surfaces and food packaging materials should know how to minimize the intentional and unintentional cross contamination of food allergens.

### 7. Employee Training

### Curriculum should include:

- Top 8 Food AllergensBasics of Food Safety
- (cGMPs, SSOP, HACCP) Policies and procedures
- for allergen control
- Strategies to reduce cross- contamination
  - Color-coding
  - Proximity of equipment
  - Production Scheduling
  - Cleaning/Sanitizing
  - Labeling
  - Rework procedures

### 7. Employee Training

# Training and communication are key to effective allergen control

Management is responsible for the following:

- Ensuring allergen control policies and procedures are readily available for employees.
- Ensuring employees are aware of changes to allergen control plan.
- Documenting allergen awareness trainings.
- Posting of signage for use in dedicated areas to minimize the potential for cross-contamination.
- Creating an environment where employees can report problems observed.



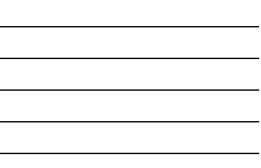


### Group Training Exercise Scenario

- Scenario "Yummy Yuckies"
- Break into 7 small groups (Key Elements)
- Assign roles to team members (note-taker, facilitator and presenter)
- Begin discussion (15 minutes)
- Present and share with the class (3 minutes)



### -----





# How Do We Know There Is A Problem?

Complaint Handling

# **Allergen Complaints**

Customer service response should include training staff on how to handle complaints.

Step 1: Create a complaint record

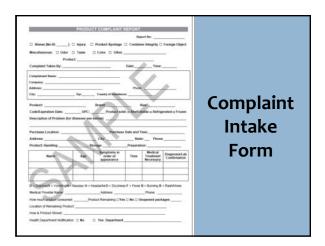
- Step 2: Initiate an investigation
- Step 3: Evaluate processes and controls
- Step 4: Develop corrective actions to achieve complaint resolution

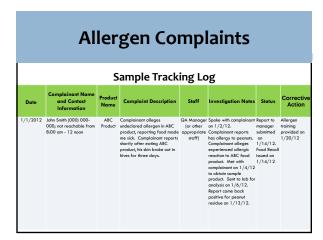
### **Allergen Complaints**

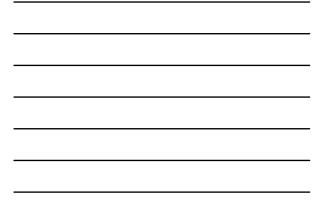
### Step 1 – Develop a Complaint Log

- > List complainant's Name and Contact Information.
- Describe the incident including date and time, nature of complaint, symptoms of illness, etc. Identify product: purchase date and lot code. >
- 8 ≻
- Sample Log -http://www.cdph.ca.gov/pubsforms/Documents/fdbRlgde04.pdf

Anonymous complaints are VERY difficult to substantiate.







### **Allergen Complaints**

### Step 2 – Initiate an Investigation

Complaints may reveal problems with the following:

- Failure to List All Ingredients
- Labeling Mistakes or Omissions
  Lapse in Sanitation Controls
  New Supplier Infiltration

- Raw Materials/Ready-to-Eat Food Separation Product Identification Numbers/Lot Codes

# **Allergen Complaints**

### Step 3 – Evaluate Processes and Controls

Allergens need to be managed from start to finish in the production process to ensure effective controls.

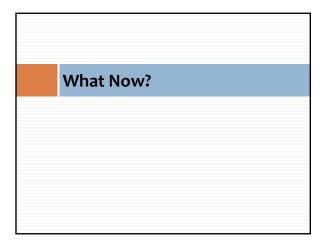
Review current policies and procedures to confirm that products manufactured and/or distributed meet quality control and safety standards.

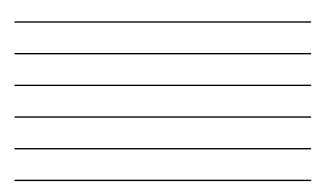
### **Allergen Complaints**

Step 4 – Develop Corrective Actions to Correct the Problem.

Fix labeling errors

- Ways to prevent unintentional cross-contamination retraining staff
  - more equipment
  - change of production schedule
  - other

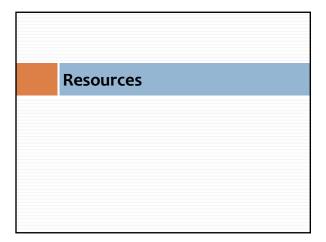






### **Recall Coordinators**

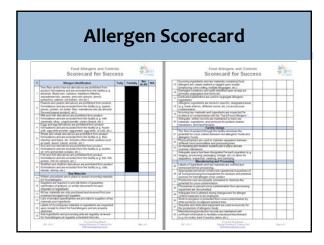
- State: CDPH-FDB send email to: FDBeru@cdph.ca.gov
- □ Federal: U.S. FDA list of regional recall coordinators can be found at: http://www.fda.gov/Safety/Recalls/IndustryGuida nce/ucm129334.htm





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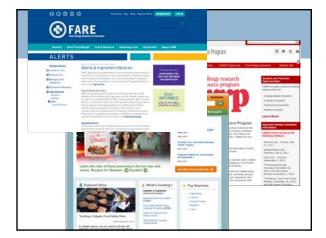
### Resources

- Food and Drug Brand
  - Top 8 Food Allergens & Their Common Aliases
  - Allergen Scorecard
  - CDPH.CA.GOV/FDB

### Additional Information

- FoodAllergy.org
- FoodSafety.gov
- University Nebraska Lincoln
- FDA.gov







### U.S. Food and Drug Administration **FDA Recall Reports** The FDA webpage All R on Recalls, Safety Dete · Detail Alerts and Market 00 Withdrawals 110 illustrates many cases of product recalls due to undeclared allergen ingredients. 100

http://www.fda.gov/Safety/Recalls/default.htm



FDA industry guidance includes:	¢		and statements	
Food Allergens Labeling		nd Drug Administration : Ferming The Feath	area an	
Guidance, Compliance & Regulatory Information		name Transa Bank Unitype - enter 1 binner	Same Asian-Demp Hotor State Hot	
"Dear Colleague" Letter About the "Food Allergen Partnership"	Food a ter & ter & seep the Every Linear Tertion are	Guidance, Compliance & Regulatory Info Industry/Regulator Information * Practice provided and Disease Pression on of		
Approaches to Establish Thresholds for Major Food Allergens and for Gluten in Food	Lano, Lasson B Balan Stronger Stell Janger John Hartho Translager Frankrik Bernstein 1 (Salah) Bernstein 1 (Salah)	<ul> <li>The second second</li></ul>		
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Food Allergen Labeling and Consumer Protection Act of 2004 (Public Law 108-282, Title II)	Muscher Minete Repairs - Automatic Research College	<ul> <li>Report No. Test adding Table free unity of - Sector and Report free (Table Test you adding - Test Report Table Test you base Test and - Test Sector (Table Test you base Test adding - Test Sector (Table Test you base Test adding - Test Sector (Table Test you base Test adding) - Test Sector (Table Test you base Test you</li></ul>	April 10 April 10 April 10 April 10	
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General Questions – FDBInfo@cdph.ca.gov

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