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PROCESS FLOW CHART/MECHANICAL DRY CLEANING - DEEP (beans, seeds, grains)

Effective Date: 06/05/18

Review Date: 11/02/20

Revision Date: 11/15/20

LEGEND

PC: Preventive Control
CP: Control Point
CCP: Critical Control Point

Supply Chain Preventive Control

- Supply Chain Verification **PC/CP**
- Supplier Food Safety Protocols
- 3rd Party Audit Reviews
- Approved Supplier Documentation
- PCQI Verification

Sanitation Preventive Control

- cGMP & Hazard Analysis
- SSOP Pre Checklists **PC/CP**
 - Pre-Op
 - Operational
 - Warehouse 1 & 2
- Hygienic Zoning
 - PATP Limit of <10 RLU
 - Quarterly EMP
 - PCQI Verification

Pre-Operational - **PC/CP**

- Allergen Preventive Control: Label Development
- Hazard Analysis & Preventive Controls Determination
- Calibration
- Labeling: date Code/Best By/UPC/Lot Code
- PCQI Verification/Validation

Quality Control - **PC/CP**

- Allergen Preventive Control: Receiving
- HOLD & Positive Release
- Microbiological Pathogen/Gluten Testing
- PCQI Verification

RISK MANAGEMENT / PROCESS PREVENTIVE CONTROLS

- Mitigation Activities as Required
 - See Process Decision Tree for Protocols
- ### 4-Part Cleaning Station

Vibrating Sifter / Separator

Rare Earth Magnet

- Pull: 3-18 lbs **PC/CP**

Optical Laser Color Sorter

- Compressed Air **PC/CP**
- Calibrated to BRC Standards
 PWO ($\leq 6,000 / \leq 40 / \leq 0.01$)
 ISO equivalent 2:2:1
- SSOP Checklist **PC/CP**
- PCQI Verification

Free-Flow Metal Detection

- Operational Limit **PC/CP***
- Stainless Steel
 - Everything - 1.5 mm
 - Ferrous
 - Everything - 2.0 mm
 - Non-Ferrous
 - Everything - 1.27 mm
 - Cleaning Log: Vibrating Sifter/Magnet/Sorter/Metal Detection
 - PCQI Verification & Validation

Quality Control

- Verification & Validation
 - Calibration
 - Product sampling & testing
 - Monitoring CA & Records
- PCQI Oversight

Metal Detection

- Bulk Critical Limit **PC/CCP #1***
- Ferrous 2.5mm
 - Non-Ferrous 5.5mm
 - Stainless Steel 5.556mm
 - Production Logs
 - PCQI Verification

Industrial Production

Inventory

- Allergen Control & Cross Contamination Prevention **PC/CP**
- FIFO Rotation
- Physical Inventory
- Cycle Count

Bulk Sales

Order Fulfillment

Shipping

- Allergen Declaration **PC/CP**
- CST, Photos, Invoice Packet
- PCQI Verification

Retail Production

Metal Detection

- Operational Limit **PC/CP***
- Ferrous 1.5mm
 - Non-Ferrous 1.2mm
 - Stainless Steel 1.8mm
 - Production Logs
 - PCQI Verification

Quality Control

- QC Production Inspection Report
- FSMA Mitigation Activity Report
- PCQI Verification

Inventory

- Allergen Control & Cross Contamination Prevention **PC/CP**
- FIFO Rotation
- Physical Inventory
- Cycle Count

Shipping

- Allergen Declaration **PC/CP**
- CST, Photos, Invoice Packet
- PCQI Verification

Order Fulfillment

Retail Direct and Food Service Sales

Refer to the 'Decision Tree' form to verify if the product is to be cleaned.

Our critical limit is a scientifically based value to which a biological, chemical or physical parameter is controlled at a critical control point (CCP) to prevent, eliminate or reduce the occurrence of a food safety hazard. Our limits and criteria are derived from sources such as regulatory standards and guidelines, literature surveys, experimental results, and experts.