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PROCESS FLOW CHART: DRY MECHANICAL CLEANING / UVC MICRO REDUCTION

Effective Date: 07/31/23

Review Date: 01/02/24

Revision Date: 01/02/24

LEGEND

- PC:** Preventive Control
- CP:** Control Point
- CCP:** Critical Control Point
- OCP:** Organic Control Point

Supply Chain Preventive Control

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

Sanitation Preventive Control

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

Pre-Operational - PC/CP/OCP

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

Quality Control - PC/CP/OCP

- Product Identification Sheet (PIS) Formulation
- Allergen Preventive Control: Receiving
- HOLD & Positive Release
- Microbiological Pathogen/Gluten Testing
- PCQI Verification

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

RISK MANAGEMENT / PROCESS PREVENTIVE CONTROLS

- Mitigation Activities as Required
- See Process Decision Tree for Protocols

4-Part Cleaning Station

Rare Earth Magnet

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

Vibrating Sifter / Separator

Aspirator

- Vacuumed Air
- Variable Speeds

UVC Sterilization

- UVC Tunnel **PC/CP**
- Germicidal ultraviolet emission, without ozone, at 253.7 nanometers, as per FDA code: 21CFR179.391
- Provides lethal kill step required for FSMA Ready to Eat Declaration
- Variable speed to maximize exposure

Quality Control

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

Metal Detection

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

Production

Post-Processing Testing

Inventory / Warehouse Storage

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

Toll Processing Product Fulfillment

Shipping

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

Edison Grainery 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

Shipping

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

Order Fulfillment

Retail Direct and Food Service Sales

Inventory

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

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.

* Validation study in process.