

# Nampa Facility Food Safety Plan

Granulated Sugar  
Powdered Sugar

Version 10/5/22

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### Plan Approval

Plant/Warehouse Manager:



Date:

10/18/22

Local HACCP Coordinator:



Date:

10/5/22

Facility Information

<b>Facility Name:</b>	Nampa Factory		
<b>Facility Address:</b>	138 W. Karcher Road, Nampa, Idaho 83687		
<b>Phone:</b>	208.466.3541		
<b>Plant/Facility Manager:</b>	Jason Lowry		
<b>Local HACCP Coordinator:</b>	Stefanie Constantinescu PCQI		
<b>Company HACCP Coordinator:</b>	Kelly Malone PCQI		
<b>Number of Employees:</b>	350 (500 campaign)	<b>Temporary Employees:</b>	Yes
<b>Facility Description:</b>	<p>The Nampa factory was constructed in 1942. This facility produces granulated sugar which is conditioned and stored in 12 concrete silos. Stored sugar is screened and loaded or packaged into the following:</p> <ul style="list-style-type: none"> <li>• Bulk cars and bulk trucks</li> <li>• Industrial granulated—poly bags and totes</li> <li>• Industrial powder—paper bags and totes</li> <li>• Retail granulated—paper bags</li> <li>• Retail powder—poly bags</li> <li>• Used to produce liquid sucrose, invert, and coating syrup</li> </ul> <p>Packaged products are shipped by dry van trailers and box cars.</p>		

Food Safety

<b>Products:</b>	This site produces granulated sugar, powdered sugar, liquid sugar, medium invert sugar, coating syrup, and feed co-products.		
<b>Third Party Audit Standard:</b>	Current SQF Edition	<b>Certification Body:</b> CICS-Americas	
<b>Ingredients/Raw Materials:</b>	Sugar Beets	<b>Import Capability:</b> No	
	<u>Corn Starch (powdered)</u>		
<b>Packaging:</b>	<u>Tote (Flexible Intermediate Bulk Container), Paper Bags, and Poly Bags</u>		
<b>Prerequisite Programs :</b>	1. Personnel Practices	2. Employee Training	3. Equipment Calibration
	4. Integrated Pest Management	5. Premises & Equipment Maintenance	6. Cleaning & Sanitation
	7. Monitoring Utilities: Air & Water	8. Physical Contaminant Control	9. Warehousing, Transport, and Delivery
	10. Waste Management	11. Allergen Management	12. Chemical Control
	13. Supplier Approval	14. Visitors	

Team

<b>Stefanie Constantinescu</b>	Food Safety and Quality Professional	<u>Preventive Controls Qualified Individual</u>
<b>Jason Lowry</b>	Plant Manager	In-house
<b>Craig Ashcraft</b>	Maintenance Manager	In-house
<b>Tyrel Murphy</b>	Chief Chemist	HACCP 1 Day Course
<b>Bruce Rhodes</b>	Warehouse Maintenance Supervisor	HACCP 1 Day Course
<b>Maria Betancourt</b>	Warehouse Supervisor	HACCP 3 Day Course
<b>Luis Cepeda</b>	Production Manager	In-house
<b>Steve Willcuts</b>	Engineering Manager	In-house
<b>Kelly Malone</b>	Food Safety Systems Specialist	<u>Preventive Controls Qualified Individual</u>



## Product Description

**NATIONAL  
SUGAR  
MARKETING**

Document No.: PD-01

Rev.: 0

### General Product Information

<b>Product Name:</b>	Granulated Sugar
<b>Technical Name:</b>	Sucrose
<b>Product Description:</b>	Sucrose is a nonreducing disaccharide composed of glucose and fructose bonded by an oxygen atom. It is derived from sugar beets or sugar cane and is used as a food and a sweetener.
<b>Ingredients:</b>	Crystalline sucrose
<b>Intended Use:</b>	This product is used as an ingredient in many food products and functions as a sweetener.
<b>Intended Consumer:</b>	Granulated sugar is sold as retail or distributed to food processors that provide products to the general public, including high risk groups.
<b>Shelf Life:</b>	5 years, 70% RH, 90°F
<b>Labeling Instructions:</b>	None
<b>FDA Classification:</b>	GRAS <a href="#">21 CFR 184.1854</a>
<b>Storage:</b>	Silo storage, ambient. Packaged product is warehoused.
<b>Distribution:</b>	Granulated sugar is distributed in bulk or packaged form. Bulk sugar is transported by bulk rail or truck. Packaged sugar is distributed by trailer or boxcar.

### Technical Information

<b>Chemical Formula:</b>	$C_{12}H_{22}O_{11}$
<b>Water Activity (<math>a_w</math>):</b>	0.22 <sup>1</sup>
<b>Moisture:</b>	0.04% Max.
<b>Sulfites:</b>	2 to 5 ppm. Must be less than 10 ppm.
<b>Microbiological:</b>	Will not support the growth of vegetative pathogens. <sup>2,3</sup> Meets ISBT <sup>4</sup> and NFP <sup>5</sup> standards for use in carbonated beverages and canned foods.

### Preventive Controls

<b>Process Control:</b>	CCP Metal Detection & CCP Magnet
<b>Allergen Control:</b>	None
<b>Sanitation Control:</b>	None
<b>Supply-Chain Control:</b>	None

<sup>1</sup> [BC CDC: Water Activity of Sucrose and NaCl Solutions](#)

<sup>2</sup> [Microbial Risk Assessment: Pathogen Challenge Evaluations of Granulated and Liquid Sugar](#)

<sup>3</sup> [Fate of Bacterial Pathogens](#)

<sup>4</sup> ISBT: Liquid Sucrose

<sup>5</sup> GMA Canners Standard



## Product Description

**NATIONAL  
SUGAR  
MARKETING**

Document No.: PD-04

Rev.: 0

### General Product Information

<b>Product Name:</b>	Confectioner's Powdered Sugar
<b>Technical Name:</b>	Sucrose
<b>Product Description:</b>	Pulverized or ground granulated sugar with corn starch for anti-caking properties.
<b>Ingredients:</b>	Sweetener to be used as an ingredient or direct consumption.
<b>Intended Use:</b>	This product is used as an ingredient in many food products and functions as a sweetener.
<b>Intended Consumer:</b>	Powdered sugar is sold as retail or distributed to food processors that provide products to the general public, including high risk groups.
<b>Shelf Life:</b>	2 years
<b>Labeling Instructions:</b>	None
<b>FDA Classification:</b>	GRAS <a href="#">21 CFR 184.1854</a>
<b>Storage:</b>	Packaged product is warehoused.
<b>Distribution:</b>	Powder sugar is distributed by trailer or boxcar.

### Technical Information

<b>Chemical Formula:</b>	$C_{12}H_{22}O_{11} + C_{12}H_{48}O_{20}$
<b>Water Activity (<math>a_w</math>):</b>	0.31 <sup>1</sup>
<b>Moisture:</b>	0.5% max.
<b>Sulfites:</b>	Results equivalent to granulated sugar, 2-5 ppm.
<b>Microbiological:</b>	Will not support the growth of vegetative pathogens. <sup>2,3</sup> Meets ISBT <sup>4</sup> and NFP <sup>5</sup> standards for use in carbonated beverages and canned foods.

### Preventive Controls

<b>Process Control:</b>	CCP Metal Detection
<b>Allergen Control:</b>	None
<b>Sanitation Control:</b>	None
<b>Supply-Chain Control:</b>	None

<sup>1</sup> Internal Analysis

<sup>2</sup> [Microbial Risk Assessment: Pathogen Challenge Evaluations of Granulated and Liquid Sugar](#)

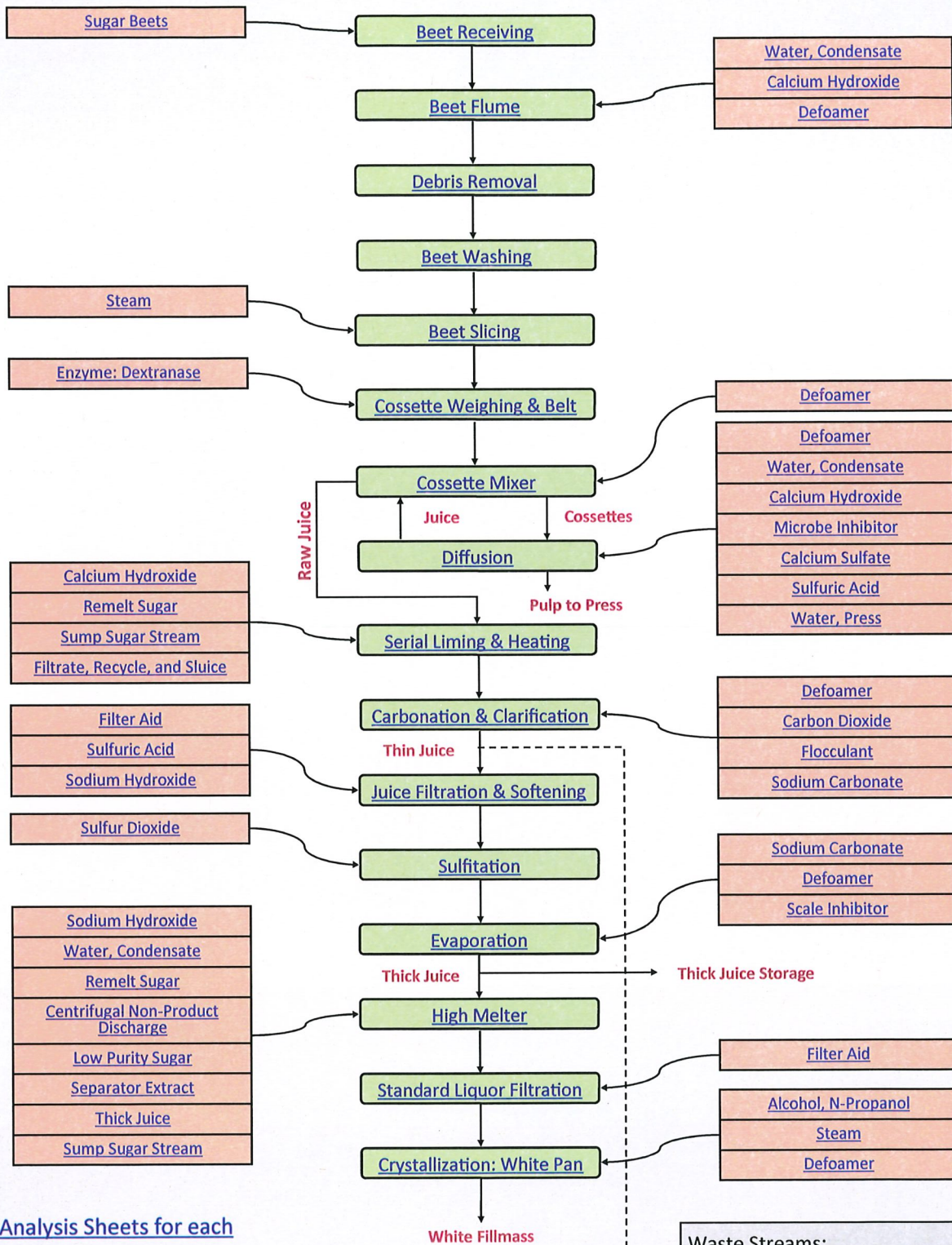
<sup>3</sup> [Fate of Bacterial Pathogens](#)

<sup>4</sup> ISBT: Liquid Sucrose

<sup>5</sup> GMA Canners Standard

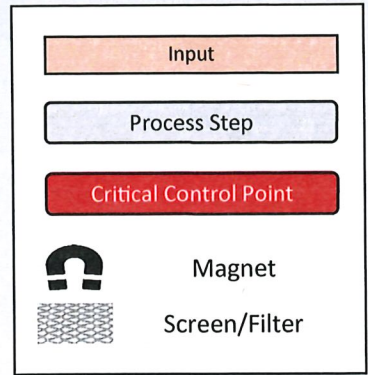
# Process Flowchart: Beets to Fillmass

This flowchart outlines the factory mill, including slicing, extraction, purification, and crystallization. The separation in diagrams is based on product risk and resulting hygienic zoning. The factory process (outlined below) precludes any food safety hazards in prior to crystallization.



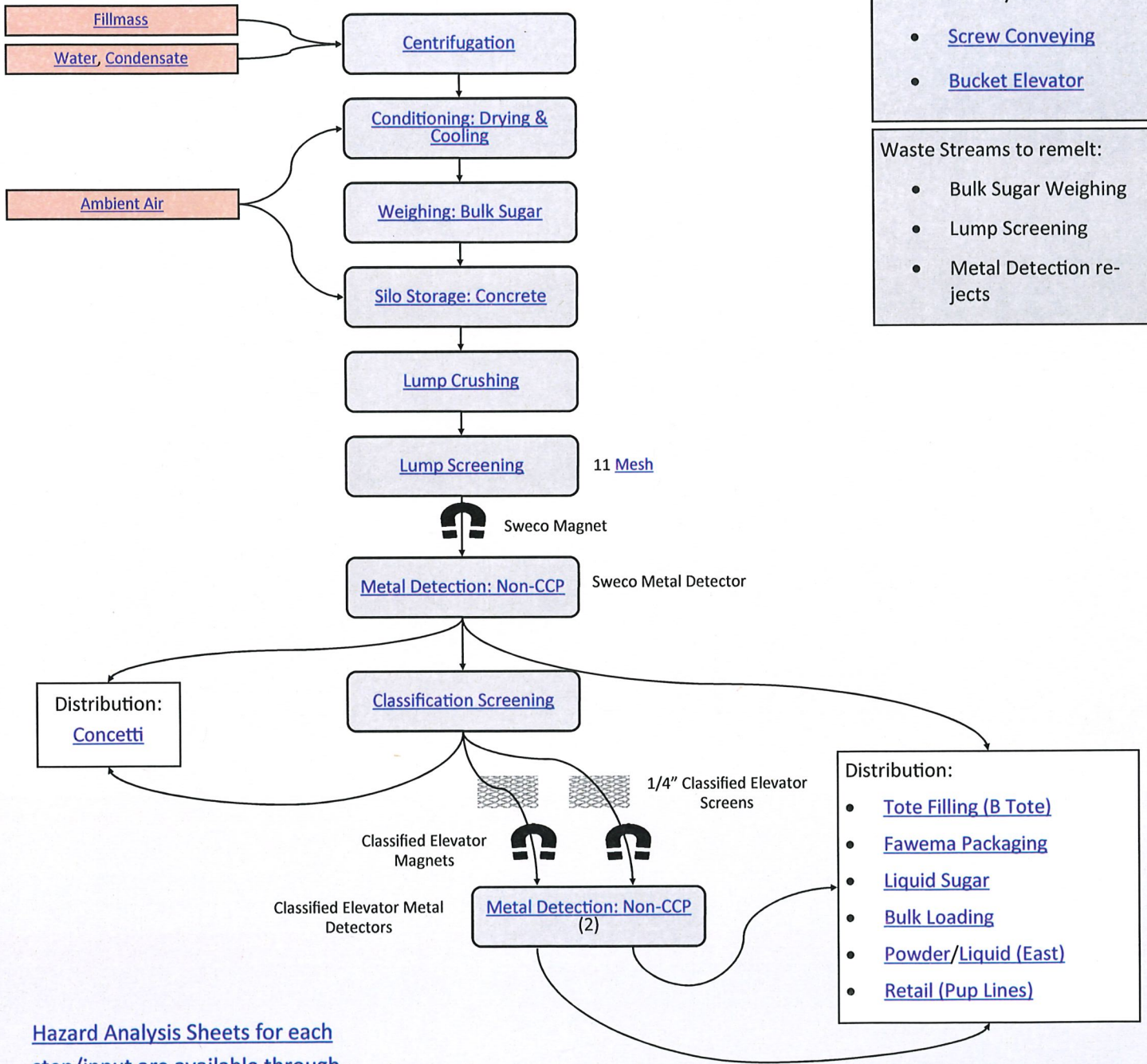
Hazard Analysis Sheets for each step/input are available through [internal links](#) or by customer request.

# Process Flowchart: Granulated Sugar Distribution



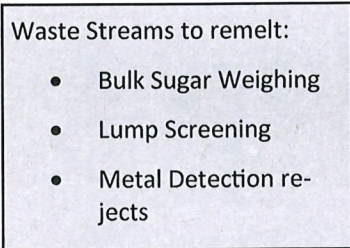
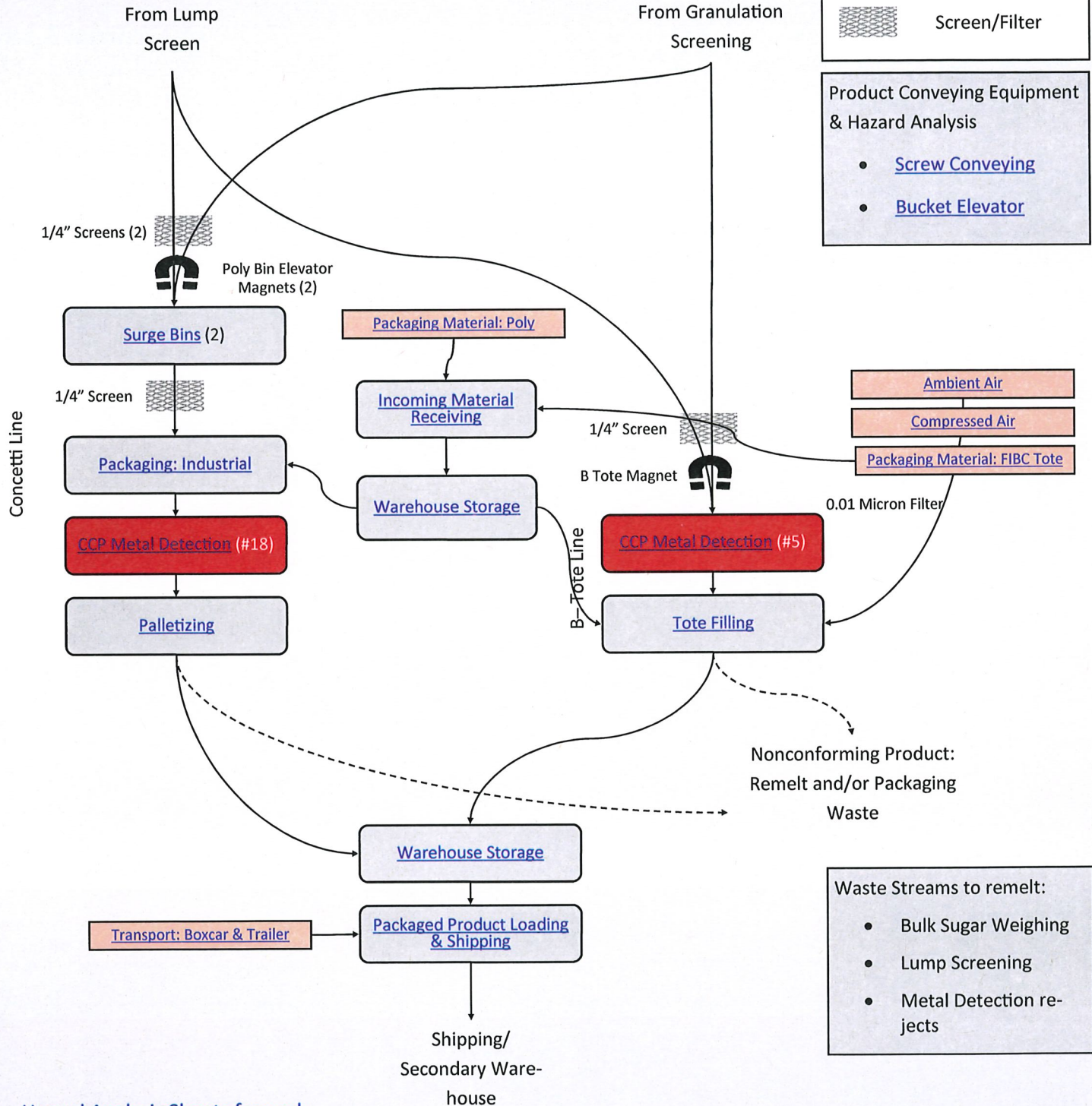
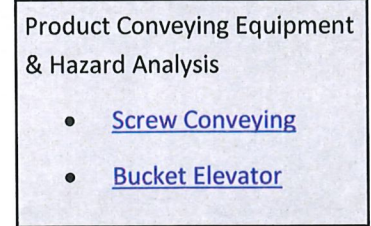
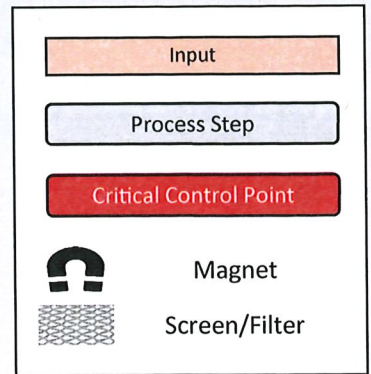
- Product Conveying Equipment & Hazard Analysis
- [Screw Conveying](#)
  - [Bucket Elevator](#)

- Waste Streams to remelt:
- Bulk Sugar Weighing
  - Lump Screening
  - Metal Detection rejects



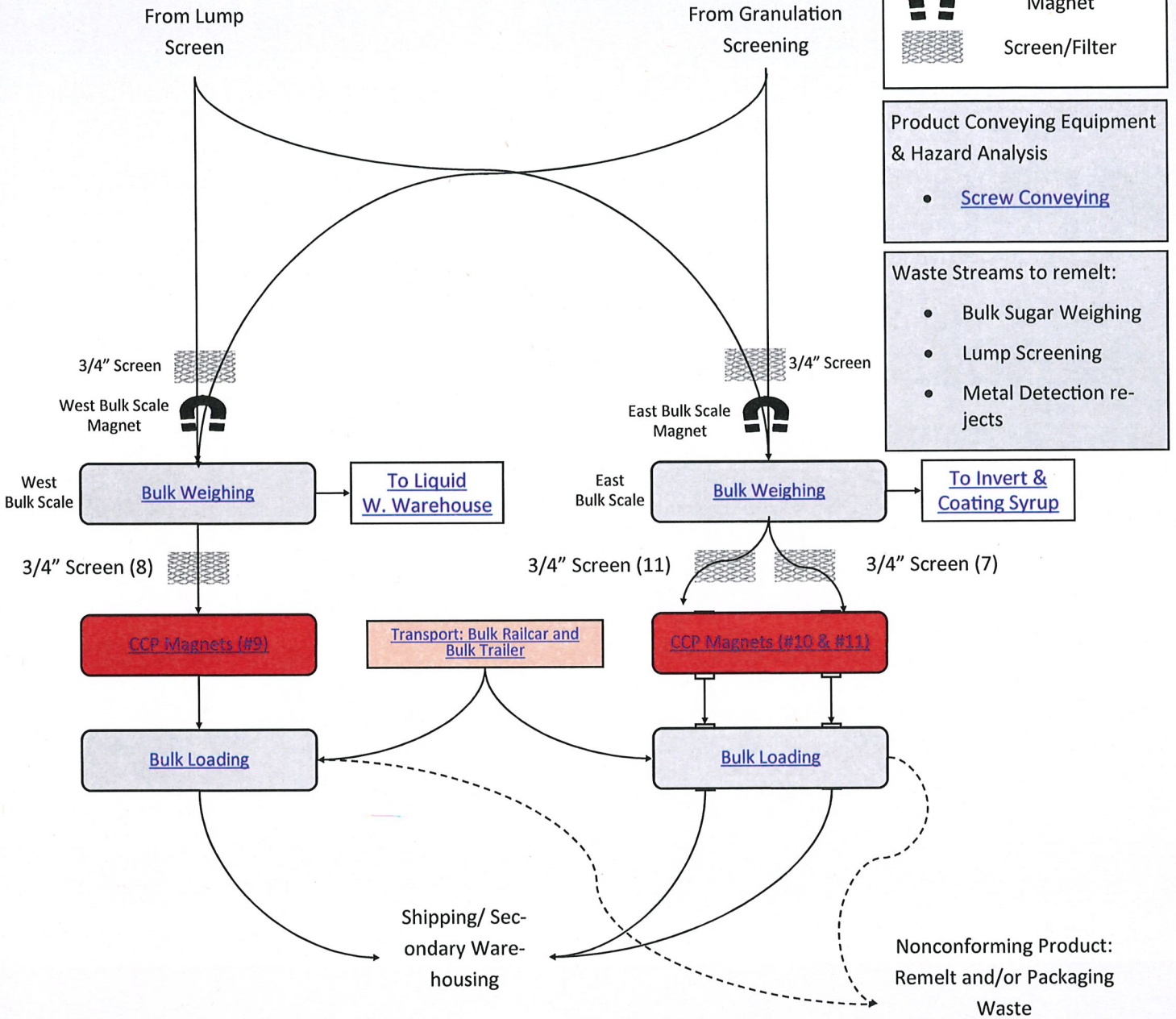
[Hazard Analysis Sheets for each step/input are available through internal links or by customer request.](#)

# Process Flowchart: Granulated Industrial and Tote



[Hazard Analysis Sheets for each step/input are available through internal links or by customer request.](#)

# Process Flowchart: Bulk Loading



[Hazard Analysis Sheets for each step/input are available through internal links or by customer request.](#)

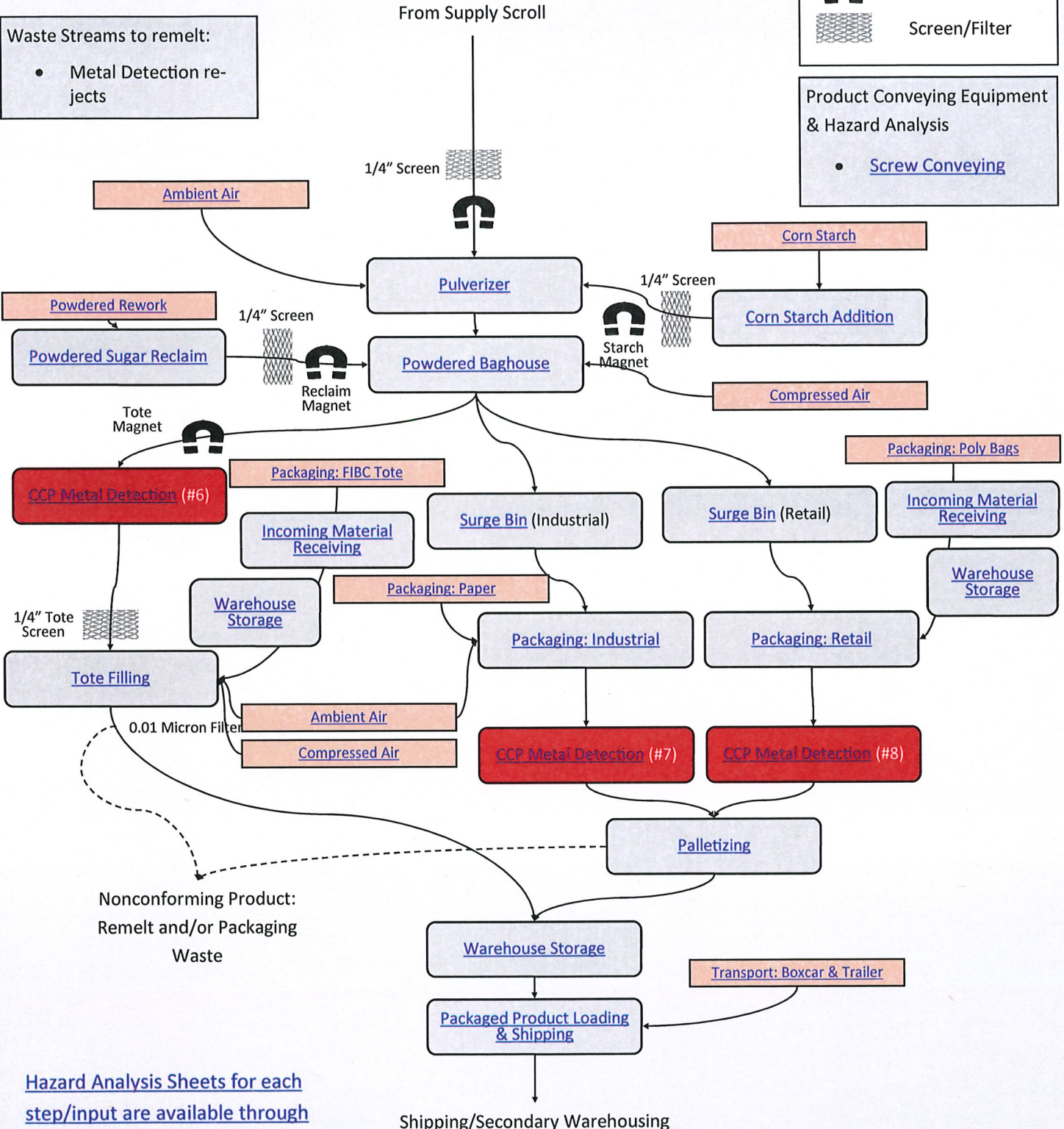


# Process Flowchart: Powdered Sugar

	Input
	Process Step
	Critical Control Point
	Magnet
	Screen/Filter
Product Conveying Equipment & Hazard Analysis	
<ul style="list-style-type: none"> <li><a href="#">Screw Conveying</a></li> </ul>	

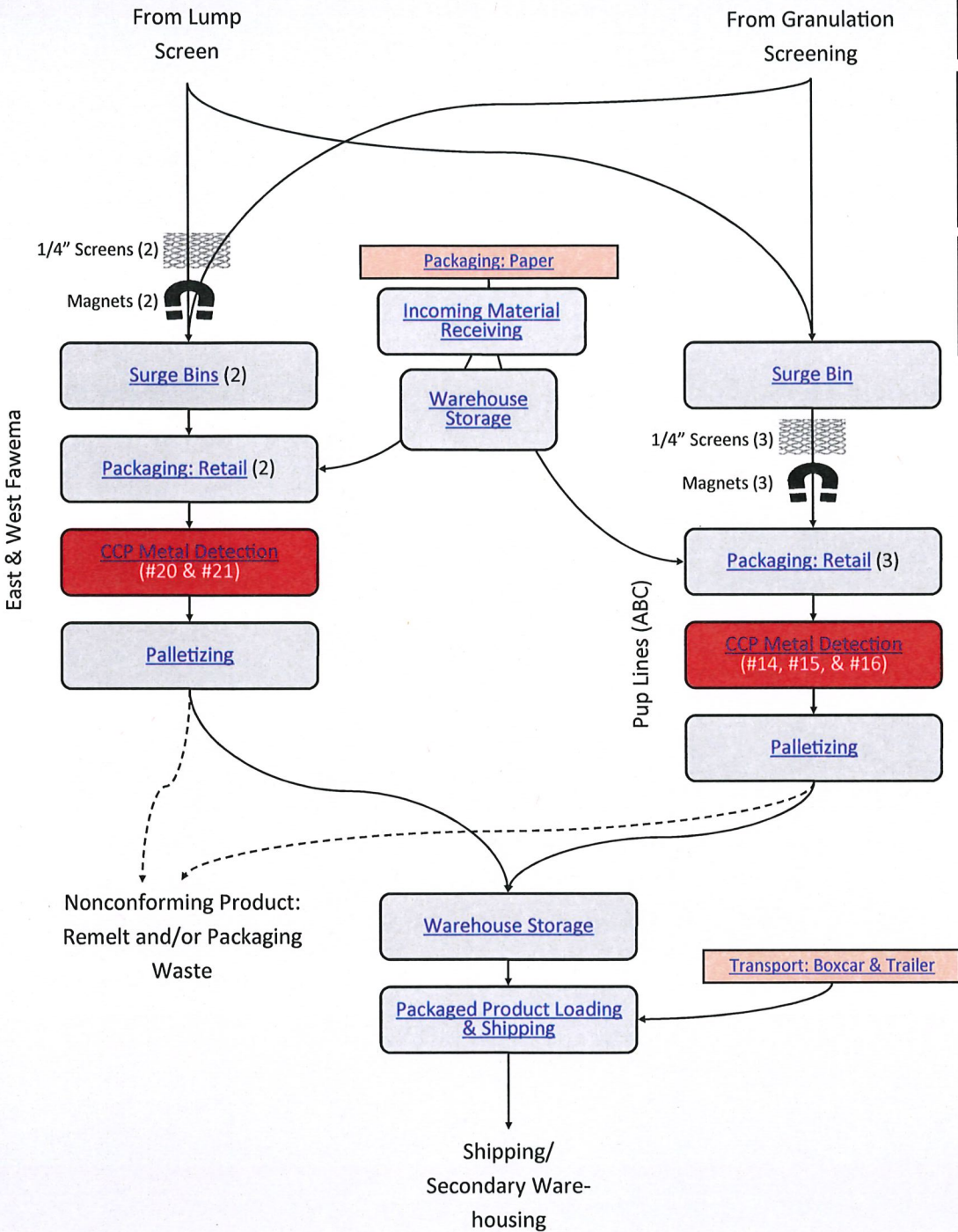
Waste Streams to remelt:

- Metal Detection rejects



[Hazard Analysis Sheets for each step/input are available through internal links or by customer request.](#)

# Process Flowchart: Fawema and Pup Lines



**Input**

**Process Step**

**Critical Control Point**

**Magnet**

**Screen/Filter**

**Product Conveying Equipment & Hazard Analysis**

- [Screw Conveying](#)

**Waste Streams to remelt:**

- Metal Detection rejects

East & West Fawema

Pup Lines (ABC)

[Hazard Analysis Sheets for each step/input are available through internal links or by customer request.](#)

## Process Preventive Control: Critical Control Point Summary

<b>Process Control Step:</b>	CCP Metal Detection	
<b>Hazard(s):</b>	Metal	
<b>Parameters, values, or critical limits:</b>	Functioning metal detector that can detect 1.5 Fe, 1.8 NF, 2.0 SS, and 2.0 Al mm spheres.	
<b>Monitoring:</b>	<b>What:</b>	All product passes through an operating metal detector.
	<b>How:</b>	Monitor according to SOP <a href="#">6.3-01 CCP Monitoring: Metal Detector</a> .
	<b>Frequency:</b>	Packaged detectors checked at the beginning of a startup, a shutdown of two hours or longer, at the end of a production run (no following shift), and at least every 1.5 hour (industrial & retail packaging) or 2.5 hours (totes) of operation.
	<b>Who:</b>	Trained warehouse operator.
<b>Corrective Action:</b>	Operator notifies QA personnel. QA personnel complete corrective action according to SOP <a href="#">6.3.-03 HACCP Deviation: Metal Detector</a> .	
<b>Verification:</b>	<b>Monitoring Activity:</b>	Supervisory personnel verify the monitoring activity through record review within 7 days of record generation. The review is indicated by a signature and date.
	<b>Food Safety Plan:</b>	The food safety plan is incorporated into annual internal audits. The plan, CCP selection, and CL determination are reviewed/assessed annually.
<b>Validation:</b>	<b>Critical Control Point:</b>	CCP selection is reevaluated annually in light of emerging technological and regulatory information. This review is documented on record <a href="#">7.1-03 Validation</a> .
	<b>Critical Limits:</b>	CL or parameter selection is reevaluated annually in light of emerging technological and regulatory information. This review is documented on record <a href="#">7.1-03 Validation</a> .
	<b>Scientific &amp; Technical Information:</b>	Decisions for the hazard analysis, CCP selection, and CL selection have been based on scientific and technical information. This information is posted to the corporate intranet and may be accessed through this <a href="#">link</a> .
<b>Records:</b>	Records retained per Record Retention policy.	

Procedural documentation is available on the corporate intranet through direct links or through the quality assurance tab. This documentation will be made available to customers upon request.

## Process Preventive Control: Critical Control Point Summary

<b>Process Control Step:</b>	CCP Magnet	
<b>Hazard(s):</b>	Metal	
<b>Parameters, values, or critical limits:</b>	No significant findings upon inspection. Significant findings ( $\geq 2.0\text{mm}$ ) indicate potential contamination and activate deviation procedures.	
<b>Monitoring:</b>	<b>What:</b>	All product passes through magnets, which are inspected for potential contaminants. Material is evaluated with the assistance of WHS-REC-117.
	<b>How:</b>	Monitor according to SOP <a href="#">6.3-05 CCP Monitoring: Magnet</a> .
	<b>Frequency:</b>	Bulk loading magnets are cleaned and tramp metal is evaluated after each bulk load.
	<b>Who:</b>	Trained warehouse operator.
<b>Corrective Action:</b>	Operator notifies QA personnel. QA personnel complete corrective action according to SOP <a href="#">6.3-06 HACCP Deviation: Magnet</a> .	
<b>Verification:</b>	<b>Monitoring Activity:</b>	Supervisory personnel verify the monitoring activity through record review within 7 days of record generation. The review is indicated by a signature and date.
	<b>Food Safety Plan:</b>	The food safety plan is incorporated into annual internal audits. The plan, CCP selection, and CL determination are reviewed/assessed annually.
<b>Validation:</b>	<b>Critical Control Point:</b>	CCP selection is reevaluated annually in light of emerging technological and regulatory information. This review is documented on record <a href="#">7.1-03 Validation</a> .
	<b>Critical Limits:</b>	CL or parameter selection is reevaluated annually in light of emerging technological and regulatory information. This review is documented on record <a href="#">7.1-03 Validation</a> .
	<b>Scientific &amp; Technical Information:</b>	Decisions for the hazard analysis, CCP selection, and CL selection have been based on scientific and technical information. This information is posted to the corporate intranet and may be accessed through this <a href="#">link</a> .
<b>Records:</b>	Records retained per Record Retention Policy	

Procedural documentation is available on the corporate intranet through direct links or through the quality assurance tab. This documentation will be made available to customers upon request.

## Amendments

10/5/22	Removed Dave Hawk and replaced with Jason Lowry. Removed NSF and added CICS-Americas. Removed HR and Safety from HACCP Team.
5/17/21	Changed Maria Alvarez to Maria Betancourt. Added Waste Streams and incoming material and warehouse storage to packaging. Updated Logos.
5/13/21	Added Waste streams, secondary warehousing, Revised names. Added: Troy Morfin and Tyrel Murphy. Removed: Keith Brossard and Jeff Durning
4/21/2020	Added: Keith Brossard Removed: Kimberly Tkacs
06/20/19	Fixed Maria Alvarez's title to warehouse manager not assistant warehouse manager. Added: Luis Cepeda; Kelly Malone Removed: Tim Vandeventer; Jeremy Adamson Removed Corporate HACCP Coordinator.
02/01/2019	<u>Added</u> : Dave Hawk as plant manager. PCQI Training added for Stefanie Constantinescu. <u>Removed</u> : Eric Erickson from plant manager.
07/11/2018	Updated Version to 07/11/2018. Updated Certification body to NSF. Changed Local HACCP Coordinator from Lacey Messing to Stefanie Constantinescu, added in-house training. Changed SQF ed. to 8.0. Added Stefanie Constantinescu to team and removed Lacey Messing. Un-highlighted Martha Luna.
10/12/2017	Removed Jacci Gibbons and added Martha Luna to the HACCP Team as HR.
09/20/2017	Revised HACCP team by removing Josh Sourapas and adding Maria Alvarez.
05/24/2017	Removed the Environmental Monitoring prerequisite program. Documented a <a href="#">validation of change</a> & a <a href="#">notification letter</a> outlining rationale. Added Craig Ashcraft to replace Dave Hawk.
04/20/2017	Removed: Kelly Malone as the local HACCP coordinator and Mark Hyer as HACCP team member. Added: Lacey Messing as the local HACCP coordinator. Updated training portion and contact information. Also added Kimberly Tkacs to the HACCP team.
08/25/2016	<u>Removed</u> : the local organizational chart. <u>Added</u> : links to the Corporate Recall procedure.
08/09/2015	<u>Added</u> : Training for Bruce Rhodes, Dave Hawk, Deb Kvanli, Eric Erickson, Mark Hyer, Tim Vandeventer, and Kelly Malone <u>Changed</u> : Trent Holcomb with Deborah Kvanli as Chief Chemist. ver. 2:2015-2016
11/20/2015	<u>Reviewed</u> : HACCP plan with team members, signed approval page and verified flow diagram.
04/23/2015	<u>Removed</u> : Spot check on lot per week by the SQF Practitioner from the HACCP Master Plan to coordinate with Corporate Standard Operating Procedure. ver. 2:2014-2015

## Amendments Continued

10/29/14	<u>Reviewed:</u> HACCP plan changes with team members, Eric Erickson, Tim Vandeventer, Jacci Ellis-Gibbons, Trent Holcomb, Josh Sourapas, Steve Willcuts, and Kelly Malone.
10/21/2014	<u>Removed:</u> Standard operating procedures and records from Food Safety Plan. <u>Changed:</u> The Master Plan to include the new corporate procedures and records. ver. 1:2014-2015
09/30/2014	<u>Changed:</u> Organizational structure was changed in the company, so changed org chart to reflect the changes. ver. 5:2013-2014
06/05/2014	<u>Added:</u> Members of SQF Management Team to HACCP Team list. <u>Changed:</u> CCP 5 and CCP 6 from magnets to metal detectors. <u>Changed:</u> HACCP Master Plan CCP 5 and CCP 6 from magnets to metal detectors. <u>Changed:</u> SOP for Magnet sampling for totes removed and Metal Detector for the CCP 5 and CCP 6 change to metal detectors and HACCP documents. <u>Changed:</u> During HACCP verification audit and reviewing the flow diagram for powder, the screen was above the magnet on the flow chart instead of below the metal detector. ver. 4:2013-2014.
06/02/2014	<u>Added:</u> Screens to flow diagrams and hazard analysis. ver. 3:2013-2014.
10/23/2013	<u>Changed:</u> Updated WHS-SOP-006 to include load out screens and CCP 9, 10, and 11 ver. 2:2013-2014
08/13/2013	Mike Fowers and Kelly Malone walked the system for the New Granulated Retail Lines (Fawema) ver. 1:2013-2014

## Training Log

11/30/2018	Stefanie Constantinescu completed FSPCA Preventative Controls for Human Food course.
08/26/2016	Lacey Messing completed FSPCA Preventive Controls for Human Food course.
02/18/2016	Lacey Messing completed Two Day: Food HACCP Plan Development.
02/14/2016	Lacey Messing completed SQF Systems certification.
01/21/2016	Kelly Malone and Jeremy Adamson completed FSPCA Preventive Controls for Human Food course.
05/14/2015	Jeremy Adamson completed Three Day: Practical Food Safety and HACCP Workshop.
05/14/2015	Kelly Malone completed Three Day: Practical Food Safety and HACCP Workshop.