

1. Surveillance Audit Report

Unannounced audit





DQS CFS GmbH

August-Schanz-Straße 21 60433 Frankfurt am Main www.dqs-cfs.com July 2019





Audit recommendation

In reference to FSSC 22000 the audit team recommends to DQS CFS GmbH:

- \Box Issuance of the certificate
- □ Issuance of the certificate as soon as implementation of corrective actions has been demonstrated. Corrective actions have been accepted.
- $\hfill\square$ Maintenance of the certificate
- ☑ Maintenance of the certificate as soon as implementation of corrective actions has been demonstrated. Corrective actions have been accepted.

Corrective actions

Corrective actions of the **current audit** have been demonstrated and have been accepted by the auditor:

 \Box Yes

🗆 No

 \Box NA (no corrective actions necessary)

The implementation of corrective actions of the **previous audit** has been verified by the auditor

⊠ Yes

□ No

□ NA (no corrective actions on previous audit)

Use of FSSC 222000 Logo (Mark)

The use of the FSSC 22000 logo complies with the terms and rules for the use of the logo of FSSC in the version that is currently valid:

 \Box Yes

🗆 No

⊠ Not applicable (No Useage)

Audit team member			
Given name	Jurname	Role	ISO TS 22003 scope (s)
Patrick	Frost	Lead Auditor	All

The technical assessment is based on the audit findings and conclusions and any other relevant information.

Technical Assessor				
Given name	Surname	Date	Signature	
Navid	Falaki	10/8/2019		





Audit progra	m and plan	
Audit	mark according	The actual audit is:
program	Type of Audit	□ Initial Certification (Stage 2)
	see Annex I – Inspection plan for	□ Surveillance announced audit
	audit program	⊠ Surveillance unannounced audit
		□ Re-certification audit
		□ Upgrade audit (from existing ISO 22000 certification to FSSC 22000)
		□ Transfer audit (from another CB)
Certificate expiry date	Insert certificate expiry date	2021-12-05
from audit impacting the au program and the	Describe issues	☑ No deviations from audit program
	impacting the audit program and their reasons	☐ The following deviations from the au. "t program were noticed:
	10030113	
Audit plan	See Annex I –	Annex I – Schedule will be u, 'oak ed vith the audit
	Schedule	documents
Deviation	Describe issues	No deviations from a rdit plan
from audit	impacting the audit	Deviations ner ess any but minimum total audit time
plan	plan and their reasons	allocated or sit
		\Box 50% of ϵ udit time allocated in production and storage area
		ר 1. ב fo, איז deviations from the audit plan were applied:
		Total at 'it time was reduced to 3 mandays from 3.5. Using manday
		c alcu، tor: (1.5 basic + 1.0 added HACCP + 1 FSSC + 1 FTE) X 2/3
		= `0 mandays. Time was sufficient due to enclosed process,
		د باطرهr familiarity, and similarity of processes.
	$\overline{\mathbf{O}}$	





Audit details								
Customer	Insert Cus	tomer	10011358					
relation code	Relation C	ode (AZ)						
CB name and office location	Insert Cert Body	ification	DQS CFS (DQS CFS GmbH				
Audit language	Insert mutu agreed lan used durin audit	guage	English	English				
			l /	Audit Team				
Lead Auditor	given and	surname	Patrick Fros	st				
Co- Auditor	of the Lead given and							
	of the CO	()						
Technical Expert	given and of the tech expert(s)	nical						
Audit objective	Confirm ar attention a		accordin	are in confor g to FSSC 22			nuirements	
			🗌 Only par	tly:	X			
Audit criteria	Assessed procedures requirement	s and	ISO 22000:	2005, ISO 21.	00 <u>∠</u> 1:2	UJ9, FSSC	22000 V.4 a	dd'l req
Audit dates	Start date,		Start date:			Start time	:	
and times	(DD,MM,Y incl. time (I		2019-07-30	20		08:00		
	Finished d (DD,MM,Y	-	Finis led da			Finished t 16:30	ime:	
	incl. time (10.00		
Audit duration	Details of A duration (n (please ref approved justification	nandays) fer to n):	2 J. 900. V					
Audit time	Details reduction (S No reduc					
reduction	redución (please refer t. approved justifical. n)		from 3.5. U + 1 FSSC +	e reduction: 1 sing manday · 1 FTE) X 2/3 process, aud	calculat s = 3.0 r	or: (1.5 bas nandays. T	sic + 1.0 adde ïme was suffi	ed HACCP cient due
Additional	Details of a	additional	No off-si	te activities				
audit time for off-site activities	audit time site activiti		 ☑ No off-site activities ☑ add. time for off-site activities: 					
			On-site a	udit time calcu	ulation			
Insert audit time calculation for		D	Н	MS		FTE	FSSC addition	Total
complete cycle 100% = initial	100%							
66% = Re-certification 33% = Surveillance	66%							
	33%	1					1	2
Other standards	Mention th standards audited tog with FSSC	that are gether	Star	ndard	Au	dit type	M	D





	Also show audit type	
	and man-days allocated to these	
	standards.	
Number of HACCP studies	Insert number of HACCP studies	3
Number of employees (FTEs)	Insert number employees	67
Number of shifts	Insert number of shifts	4
Employees per shift (FTE)	Insert number of employees per shift	15
(Third party of	f-site services hired by a	Off-site activities auditee, such as storage, transportation, production of semi- finished products, etc.)
Registered legal name	Insert legal name of third-party off-site service(s) (if applicable)	N/A
Trading name(s)	Insert trading name of third-party off-site service(s) (if applicable)	
Scope	Insert scope of third- party off-site service(s) (if applicable)	
Location	Add location of service(s) (if applicable)	

Audit details	previous audit		
Audit type	mark according Type of previous Audit	<u>The evic is audit was:</u>	
		C. n. 'tian Sertification (Stage ?	1)
		□ `nitial Certification (Stage 2	2)
		D . Surveillance announced	audit
		□ Surveillance unannounce	ed audit
		⊠ Re-certification audit	
		(from existing ISO 22000 certification to FS	SSC 22000)
		□ Transfer audit (from another	CB)
Audit date	Date of previous	From:	To:
	Audit (DD/MM/YYYY)	31/10/2018	02/11/2018
СВ	conduction	DQS CFS GmbH	
conducting audit	Certification Body from previous Audit	□ other CB:	





Description of	the certified organis	sation:
Registration	Registered legal	ADM Co.
Ū	name: Chamber of	Southport
	Commerce Governmental	XXXXXX5996
	registration number Street & Street no.	
Location	Postcode	1730 East Moore St. SE 28461
	City	Southport
	Country	USA
Contact	Name	Scott Phillips
person	function	QA Superintendent
	email	Scott.phillips@adm.com
	phone	910-457-7565
General	Give information to :	The Archer Daniels Midland, Southpol Plant is part of the
description of audited organisation	-Ownership of the company -History -age of company -age of site -If applicable links to other sites -Turnover (if available) -Product(s) -customer types -production volume -type of specialist equipment or processes on site -head office audited -exclusion of scope -Witness audit	Archer Daniels Midland Compan, a hub cally held corporation with headquarters in Fact dr, Illinois. The company began in 1902, vien Rec. Je A. Archer and John W. Daniels began a linseed crushing ousiness. In 1923, Archer- Daniels Linseed Company courred Midland Linseed Products Company, and the Archer-Daniels-Midland Company was formed. The Solith or Plant was originally built by Pfizer, Incorporated in 1/51 manufacture Citric Acid, Sodium Citrate, and Pothasium Citrate. Archer Daniels Midland pur has id the plant and business in 1990 from Pfizer and has conthered in 2017 produce the same products at the location since that the Citric Acid, Sodium Citrate, and Potassium Citrate relating Difference of the same products at the location since that the course of the same products at the location since that the course of the same products at the location since that the course of the same proximately 2428114 m2 and the plant site occupies 404686 m2. (The site's estimated annual durnover is confidential). The products are marketed worldwide. The Southport plant has 147 employees running two shifts 7 am to 7pm and 7pm to 7am for 365 days per year. Of this number, approximately 67 are dedicated to the food grade process. 37 cover the primary shift. The site had a major reorganization in June 2019 resulting in reduced salaried headcount and reassignment of responsibilities. There is a new Plant Manager and QA Superintendent as well as other supervisory position changes Fermentation and feed portions of the site are excluded from the audit. This audit was not witnessed.



Seasonal activities	All activities covered by the scope shall be audited	N/A

Head Office	profile	
	the Head Office (were	e appropriate):
Registration	Registered legal name:	ADM Co.
	Chamber of Commerce	Decatur
	Governmental registration number	Confidential
Location	Street & Street no.	4666 Faries Parkway
	Postcode	62526
	City	Decatur
	Country	USA
Contact	Name	Dave Watson
person	function	Divisional Quality Manager
	email	F'9.w⊾'son@adm.com
	phone	117-4-1-7439
Number of sites	-Multiple site is possible for foot chain vategories: A, E =I and G -Excurtion for Categuins C. Y, I,K: - Head office controlling certain function pertinent to certification (20% audit time reduction may be applicable) - Organizations with off-site activities (a maximum of five	W/K

Audit Scope		
Food	Indicate applicable Prereguisite	□ AI Farming of Animals for Meat/ Milk/ Egg/ Honey
category	Program(s)	□ All Farming of Fish and Seafood
	According PRP's:	□ CI Processing of perishable Animal Products
	- Farming (AI,AII): ISO / TS 22002-3:2011	(i.e. Fish and Seafood, Meat, Eggs, Dairy and Fish products)
	- Food Manufacturing	CII Processing of perishable Plant Products
	(CI, CII, CIII, CIV): ISO / TS 22002-1:2009	(i.e. Fruits and fresh Juices, Vegetables, Grains, Nuts and Pulses)
	1307 13 22002-1.2009	□ CIII Processing of perishable Animals and Plant Products (mixed products)





	- Animal Feed Production (DI, DII*): ISO / TS 22002-6:2016 - Catering (E): ISO / TS 22002-2:2013 - Retail (FI): BSI / PAS 221:2013 - Transport and Storage (GI, GII): NEN/ NTA 8059:2016 - Packaging (I): ISO / TS 22002-4:2013 - (Bio)Chemicals (K) ISO / TS 22002-4:2009 - Pet food only for Cats and Dogs (DII): ISO / TS 22002-1:2009	 (i.e. Pizza, Lasagne, Sandwich, Dumpling, Ready- to- eat meals) CIV Processing of ambient stable products (i.e. Caned food, Biscuits, Snacks, Oil, Drinking water, Beverages, Pasta, Flour, Sugar, Food grade salt) DI Production of animal Feed DII Production of Pet food for Dogs and Cats DII* Production of Pet food for other Pets than Dogs and Cats E Catering FI Retail GI Provision of Transport and Storage Services for perishable Food and Feed GII Provision of Transport and Storage Services for ambient Food and Feed I Production of Food and Feed Packaging ant. Packaging Material
	1307 13 22002-1.2009	☐ I Production of Food and Feed Packaging an⊾ Packaging Material
		K Production of (Bio)Chemicals
Scope statement	Specify the products or product categories, processes and production sites that are covered by the food safety management system and mentioned on the certificate.	The manufacture of citric rid, rotin citrate, potassium citrate and liquid citric acid, remption – fermentation process and feed product)
Exclusions (when appropriate)	Description of exclusion(s) from the scope	ferm. r.ati. n process and feed product
Verification of the Scope statement	Conform that the Scope statement is in compliance with the FSSC 22000 Requirer (will, 'e verifie out by DQS techn. al reviewé	 Th. Scope statement is in compliance with the FSSC 22000 Requirements. Its has been verified by the DQS CFS technical reviewer. The Scope statement is not in compliance with the FSSC 22000 Requirements due to:

General find	General findings			
Legal compliance	Summarize the status, any governmental inspection findings, etc.	 No govermental inspection findings, since the last FSSC 22000 Audit Summary of govermental inspection findings: 		
Change management (Relevant Changes since	Documentation Requirements	None None		
the last audit)	Processes	None		
	Products	None		





Complaints management	Insert Complaints KPIs in PPM	3 complaints YTI	D; 111MM lbs p	roduced;	
Recalls and withdrawals	Summary of recalls / withdrawals	☑ No recall(s)☑ No withdrawal(s)			
			Date	Product	Product Volume
		☐ recall(s)			
		☐ withdrawal(s)			





Summary of audit findings Stage 1				
Date of	Insert date of Stage 1 audit	🛛 Not ap	plicable	
Stage 1	Slage I audil	□ Date:		
Audit				
Non-		Standard &	Audit findings	CAP
conformities		Clause		closed by: (DD/MM/YYYY)
Areas of	Number and short			
concern	description of the Stage 1 findings that			
(Stage 1 only)	may lead to a			
	nonconformity			
	during the stage 2 audit			

		Summa	ry of audit findings		
Non- conformities		Standard & Clause	Audit findings	closed CAP	CAP closed by: (DD/MM/YYYY)
Critical non- conformities	Short description of critical non- conformities		÷ Ø	☐ Yes ☐ No	
Major non- conformities	Short description of Major non- conformities			□ Yes □ No	
Minor non- conformities	Short description of Minor non- conformities	TS 220、2 1 5.7	. parti 'uncovered pallet of FIBC wa. served in the FIBC packing room.	□ Yes ⊠ No	
	C	TS `2L`2-1 8.2	A gasket covering the anacit heater port was deteriorated allowing for possible contamination.		
		TS 22002-1 8.6	Several pieces of duct tape were used in the C513 crystallizer area to suppress vacuum leaks. Tape was not dated and initialed per site's policy. No workorders could be provided indicating they were scheduled for repair.		
		TS 22002-1 11.3	Several instances of parts and tools were observed on floors, grates, and cross-beams. Areas under the sifters had large accumulation of product.		
		ISO 22000 8.4.1b	Not all internal audits to the standard were conducted as scheduled as none of the second quarter audits were completed.		





There is also a backlog of	
corrective actions for findings.	





Executive summary

A statement on the conformity and the effectiveness of the management system together with a summary of the evidence relating to:

-the capability of the management system to meet applicable requirements and expected outcomes; - the internal audit and management review process

Implementation, consistency and effectiveness of the food safety management system, especially of the prerequisite programs and the HACCP-plans, are checked, verified and evaluated in this audit by means of the following methods and processes:

Inspection and auditing of the site, including receiving, recovery, and load out for both truck and tanker cars by both the food safety team and the operators.

Auditing of support processes such as the laboratory, pest control, inspection of measuring and test equipment, water supply, compressed air supply, steam supply and maintenance.

- Auditing of processes for release and hold of product. .
- . Reviewing customer complains as they pertain to quality or food cafety.

Processes are found to be in compliance with internal procedures and the requirements of the standard.

During the interviews it was found, that all employees are well aw re a. d trained regarding product quality and food safety.



Audit Report FSSC 22000



nary: Summary of findings related to ISO 22000:2005 sections 4 to 8 while highlighting all of the s shortly and in particular the ones where NC were noted including reference to the checklists with etails.			
ood safety management system has been implemented and in use over the past s. This information is held within the quality manual on the electronic Policy system and updated on an as needed basis. The most recent update occurred in			
ood safety management system has been implemented and in use over the past s. This information is held within the quality manual on the electronic Policy system and updated on an as needed basis. The most recent update occurred in			
4.2 Documentation Requirements The document control procedure for the Food Safety Management System (FSMS) is located in the Policy Tech quality manual .			
The SOPs and policies pertaining to the FSMS are scheduled to be reviewed on at least an annual basis. The FSMS standard is located on the Policy Tech in the company intranet and is accessible to the employees working in the the facility. Employees interviewed were able to quickly find the SOP cosired.			
Details of non conference if contified during the audit:			
to ponf.			

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5. Management commitment	5.1 Management commitment Top management is committee' to implementation of the FSMS. This is evidenced by the establishment of a food safety policy and continuous improvement efforts. There have been no rom formities during the previous two audits and additional opportunities from the previous audit were addressed.
	Mon ily mana iement reviews are conducted specific to discussing food safety issues. Key p. rformal ce indicators had been developed and are monitored to ensure targets are met. These include but are not limited to monitoring customer complaints, quarterly sanitation scores, internal rejection rates, and supplier audits. All are performing at or above target.
	5.2 Food safety policy The food safety policy stated: ADM Southport Citric Acid Division is committed to producing safe and superior quality products that meets all applicable legal, statutory and regulatory requirements of food safety.
	The Food Safety policy was signed and dated by the Plant Manager, QA Superintendent posted in several locations and available to all personnel on the intranet via Policy Tech. Food safety had clearly been integrated into the company's policy. There was evidence of commitment to food safety and quality on all levels of the organization.
	5.3 Food safety management system planning Regular reviews are conducted and minutes are kept. Daily, monthly and quarterly management meetings are conducted.
	5.4 Responsibility and authority

Version 25/Jan./2018

FSSC 22000



An organization chart is developed with both a chain of command and for the food safety quality team. The food safety responsibilities are clearly designated for staff members as is back-up roles. This was reviewed for the Plant Manager. Technical Superintendant, Plant Superintendent, QA Superintendent, Purchasing Manager, Engineering Manager. All departments – Operations, QA, Maintenance, Engineering, IT, EHS/HR reported directly to the Plant Manager. 5.5 Food safety team leader The food safety team leader was identified as Scott Phillips, QA Superintendent. His responsibilities included: Manage the Food Safety Team (FST) and organize its work. а. b. Ensure relevant training and education of the FST members. Ensure the FSMS is established, implemented, maintained, and updated. C. d. Provide a communication channel from the FST to the Plant Manager and Corporate Management. The food safety team leader has had the appropriate training in HACCP, ISO and FSSC either conducted by Corporate QA or by UL-DQS training group. 5.6 Communication Both external and internal communication efforts has been . Idressed and are included in the quality manual. External – Communication with customers regarding operations, shelf life studies, letter of guarantees, complaints, corrective actions, sales and satisfaction are channeled thru Corp Sales and Technical team. Hov ever, the plant does have direct communciation with customers on complaint and seves. Communication with suppliers and contractors are channeled the uAL 4 Global Sourcing Unit for items that are globally bought. Majority of materials required by the facility are source by the plant. Contractor and facility specific surviver approval and management process is under the facility control. All other supplier nanagement process is under Corporate Purchasing control. Risk asserting conducted for each supplier are based on the risk, the suppliers are managed by at dits, require certification, incoming material inspection or reliance of CO, All ar of gurantee is required from relevant suppliers, contractors. A copy of an tter, were kept on file including the Pest Control Operator, Uniform services. Internal – Numerou types of meetings and comunication are held on regular basis. Examples of meetings, held were Daily Operation meetings, Monthly and Quarterly management neetings. Monthly Safety meetings, Quarterly Management review meeting which a loo the Food Safety/HACCP Team meeting as members of the man gement 'eam are same members as the Food Safety team. Quarterly Employee meet, gs are eld to share objectives, safety, food safety and business updates. 5.7 Emergency preparedness and response Procedures for emergency management were in place directed by Corporate. This included elements of both physical and personal safety. Emergency preparedness procedures does address the safety of the product in the event of an incident. Crisis management and procedures for withdrawal are in place. Effectiveness of the procedures for product recall is tested by regular mock recalls for all product types (4/year). The last mock recall conducted by the facility on 2018-07-30 was reviewed and resulted in 100% recovery within 4 hours. A mock recall and tracebility exercise was conducted during this certification audit. The auditor requested a recall of Granular Citric Acid prackaged on 2019-04-19. The site was able to recover 100% in 2.5 hours with all requested documentation. The exercise included a mass balance on the packaging material (FIBC) in witch 100% was accounted for. As a result, the procedures are found to be effective. 5.8 Management review Management reviews addressing the requirements of the standard are conducted quarterly. The most recent review was held on 2019-05-13 and included opportunities for improvement as well as prervious meeting follow-up. Detailed minutes of the meeting were recorded and maintained on file. The minutes and presentations

indicated that the meeting are sufficiently detailed to cover all aspects of the standard.





	Examples of topics covered at this meeting are: customer complaints, training needs, process changes, verification activities (audits, CAPA), system updates, communications and KPI/objectives.
	Details of non-conformition up, tition uring the sudit
	Details of non-conformities , ide tified Luring the audit:
	Details to Non- Conf.
6. Resource management	 6.1 Provision of resources Adequate resources had been provided for the implementation of the FSMS. This was evidenced by management sending all Food Safety team member to a third party HACCP or Corporate Har CCr training session and FSSC 22000 training. Training is distributed between innual 2 year and 3 year frequencies. This included annual refresher training in ref. P. food safety, and HACCP. All scheduled food safety training was complete 1 for 2 18 and the first 2019 session was completed in March. 6.2 Human reportees All en ployees are required to have GMP, HACCP, and FSSC training. This is conducted at the end of the training.
	 6.3 Infrastructure This site was built specifically for chemical manufacturing. Since this facility operates 24 hours a day it is essential that the infrastructure be sound. Equipment, premises and grounds are subject to regular self-inspections and improvement projects were reviewed. As a whole, the site is maintained.
	6.4 Work environment A positive work environment was maintained as evidenced in interviews with employees.
	Details of non-conformities if identified during the audit:

Details to Non- Conf.





7. Planning and	7.1 General
realization of safe products	Overall, the facility has taken the necessary steps to develop the processes needed to ensure safe products. This included implementing PRPs, establishing the oPRP's and a HACCP plan. The fundamentals of CODEX Alimentarious are followed when developing the HACCP plan.
	7.2 Prerequisite programms (PRPs) All necessary and relevant PRPs has been identified and developed. These are included in the HACCP plan and is implemented throughout the process. PRPs verification via audits are planned and frequency of audits are established. Monthly audits are conducted on Sanitation/GMP. Other PRPs –eg., incoming material receiving, pest control, chemical, security audits are rotated monthly to achieve 1/yr frequency. PRPs are documented and readily accessible by all employees via Policy Tech.
	7.3 Preliminary steps to enable hazard analysis A multi-disciplinary team has been put together for the HACCP and Food Safety team. All members had received HACCP training. A detailed deterption of the product with respect to the raw materials and the characteristics of the end product has been developed. The flow diagram has been verified by the the CCr team on 2018-10-18. The intended use of the product is clearly defined and the reme no consumer groups identified as vulnerable.
	7.4 Hazard analysis A detailed hazard analysis has been devely pedient a part of the HACCP plan. The hazard analysis contained excellent detail petaining to all chemical, physical and biological hazards that may occur in the riccess including all raw materials, utilities and chemicals used.
	Historical data backing up the control measures were used .
	 7.5 Establishing the operational prequisite programms (PRPs) The facility has established our oPRPs in the process: 1. Scalping schems on the packaging lines 2. Filter or the Chrosol tanker load-out line 3. Sulfate moneoring on the white liquor treatment 4. wretal after on on the packaging lines (also designated as a preventive control). All proventive control records reviewed were signed off by the PCQI per FSM, requirements.
	7.6 Establishing HACCP plan The HACCP plan is well detailed to reflect the hazards and process at the facility. The metal detectors and the scalping screens are identified oPRPs on the citric acid, sodium citrate and potassium citrate bags, supersack and drum lines. The products are considered low risk products. Current practices are effective, metal detector monitoring frequencies as stated in the HACCP plan do agree with current procedures as delineated by site's SOP.
	Metal Detector Procedure MFPMH.101 V8.0 fully addresses all potential situations in the event of a metal detector failure. This was supported by interviews with employees.
	7.7 Updating of preliminary information and documents specifying the PRPs and the HACCP plan The HACCP plan was reviewed on an annual basis or as needed. The most recent review was conducted on 10/24/2018.
	7.8 Verfication planning The verification planning is well documented. The oPRPs were being verified. Verification results are recorded and communicated to the food safety team.





7.9 Traceability system All products are manufactured using a batch type coding system. Full traceability is provided by batch records. The system is tested internally by the mock recall program on an annual frequency.
The lot number of the product is used for the recall procedure. Using flow rates of the process, the raw materials used for the production of the recalled product can be identified. The lot number of the product is also used to trace the location of the recalled product. Traceability records are maintained for a minimum of five years. The Product Recall, Withdrawal SOP was viewed. This SOP is linked to the Corporate Recall policy.
7.10 Control of nonconformity Control of nonconformity is well implemented and understood at this facility. The site is able to reprocess, downgrade from food to technical/feed grade and as needed reject and disposed of via the in-house waste treatment facility.
A deviation report is developed when nonconforming product is identified and records are maintained on file. Employees interviewed have clea. understanding of the process. Only 3 deviations were documented YTD and all w re complete, unambiguous, and correct reactions taken.
The most recent mock recall was conducted $2^18 - 3^2$ and took <4 hours to complete, and was able to account for 100% of 100% of 100% of 100% and took <4 hours to forward and backward mock traceability exercises are conducted to challenge packaging materials, ingredients and blen trace 1 .
The auditor requested a vertical audi of Cutric Acid Granular produced 2019-04-09. The facility was able to recover a '0% of the product in 2.5 hours. All requested documentation was provided. This corrects proved challenging as this batch included a mass balance on the packaging mate cal. All was accounted for.
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Details to Non- Conf.
69



8. Validation, verification and improvement of the FSMS	8.1 General The food safety team had validated the control measures to verify and improve the food safety management system. Validation of the scalping screens, metal detectors and sulfate test were conducted 2017-03-17. The metal detectors (CCP) are validated each year by the OEM. Records reviewed for the 2019-04-19 service were complete and supportive of their capability.	
	8.2 Validation of control measure combination The oPRP's and HACCP plan was validated prior to implementation or during subsequent reviews	
	8.3 Control of monitoring and measuring A calibration program for process monitoring and measuring instrument and laboratory instruments were in place to ensure all operational equipment was calibrated on the proper frequency. Process monitoring & measuring instrument calibration program are managed by Maintenance via the MAXIMO database, where notification to appropriate personnel to schedule work when nearing due dates. Lab instruments are currently manually managed by the lab manager. Instrument calibration are conducted by 3rd party calibration services. Scalping screens are examined at start of every shift. Meta. detectors are challenged with appropriate 2.0mm 316SS, 1.5mm FE, 1.8mm notr, siz_d test samples at start of each shift, mid shift, and end of run. Filters are chained at start of and differential pressure monitored for bulk loads	
	8.4 Food safety management system verification. The internal audit had been implemented. Audit are conducted by a site audit team that includes QA, and Engineering. Each hat been trained in internal auditing. A schedule had been developed for a udit in Sanitation/GMP of the various areas of the facility and other identified Pr. Ps. This is chedule was to ensure all PRPs would be covered over the course of the year. Note non-conformance below.	
	8.5 Improvement Since the implementation of the Food Safety System, the Management and Food Safety Team ensure and concinual improvement of the food safety management system through the management inview and monthly internal inspection.	
	Details of non-conformities if identified during the audit:	
	Detail: to Non- Conf. 8.4 1 MNC - Not all internal audits to the standard were conducted as so leduled as none of the second quarter audits were completed. There is also a backlog of corrective actions for findings.	





Food	Due to the regulatory requirements of Marsec (Coast Guard), the site has a very robust
defense	food defense and site security plan. Computor modeling was used to analyze all areas
delense	of concern and establish controls. The model evaluated 44 agents against all access
	points. Controls include 24 hour security service, camera monitoring of all critical areas,
	escort of all visitors, and supervision of contractors. Most critical sites are secured to all
	employees controlled by badge access.
	The plan was most recently reassessed in August 2018. It is currently under review
	with modifications pending. It was reviewed by the auditor. This are was considered a
	strength.
	The campus as a whole is under a security program with a security team in place and
	fenced. Food defence is addressed. An annual food defence/security assessment are
	conducted by Corporate Security and also by the USCG. In addition, the HR/Safety
	department conducts audits and reported to both Corporate and USCG.
	Previous non-conformance regarding unsecured access door was effectively actioned.
	Details of non-conformities if iden. ied d ring the pudit:
	Details to
	Non- Conf.

Food fraud prevention	The site has evaluated and documented the risk of adulteration for it's ingredients and finished product. Ingredients and process and include: White liquor Sodium Hydroxide Potassium Hydroxide Barium Carbons e Perlite Carbon There has been no h story of adulteration for these items. All items are either received based on COA and a sting or in the case of white liquor directly from ADM. Additional control or dete aon is not necessary due to the processes. Adulterated ingredients would most lik by be svident in the fermentation performance and/or the reactors. All finish d production is very low.
	Details of non-conformities if identified during the audit:
	Details to
	Non- Conf.



Prerequisite F	Program finding	ys (name of PRP standard version)
Prerequisite F Summary of PRP implementati on	Mark according Prerequisite program: - Farming (AI, AII): ISO / TS 22002-3:2011 - Food Manufacturing (CI,CII, CIII,CIV): ISO / TS 22002-1:2009 - Animal Feed Production (DI,DII*): ISO / TS 22002-6:2016	 ☑ ISO TS 22002- 1:2009 □ ISO TS 22002- 2:2013 □ ISO TS 22002- 3:2011 □ ISO TS 22002- 4:2013 □ NEN NTA 8059:2016
	- Pet food only for Cats and Dogs (DII): ISO / TS 22002-1:2009 - Catering (E): ISO / TS 22002-2:2013 - Retail (FI): BSI / PAS 221:2013 - Transport and Storage (GI, GII): NEN/ NTA 8059:2016 - Packaging (I): ISO / TS 22002-4:2013 - (Bio)Chemicals (K): ISO / TS 22002-1:2009	 ISO TS 22002- 6:2016 BSI PAS 221:2013

		ummary of findings related to $ccor ng \in \mathbb{P}(s)$ while highlighting all of the sections shortly the ones where NC we, not 1^{i} cluc ng reference to the checklists with more details.
Construction and Layout of Buildings / Premises / Workspace	is also monito of organic chi There are no well maintain neighbouring consideon The I yout of proces build packaging in into each pack into the packa The GMP lev The Analytica Microbiology Break rooms Warehouse fo building for m vicinity. Bulk raw mat	sided within 1 col pour 1 that Is fenced and gated. Additionally, the site pred by callera, in a focility Is constructed specially for the manufacture emicals and 1 minutes and poses no hazard to the product. potent all sources of contamination from the environment. The exterior is edived, tation removed, road and parking areas up kept. There are no industries and the site is surrounded by woods. This has been taken into withe lood safety team and the risk is determined as negligible. The facility is suitable for the product manufactured. The recovery fig is segregated from the packaging and warehousing building. Each e is within enclosed rooms. Flows of finished product are via hard pipes skaging rooms. Drums, sacks and other packaging materials are brought aging rooms from the materials warehouse as needed. el of the facility and equipment are maintained satisfactorily. al laboratory is housed in the Recovery building of the facility. There is no laboratory on campus. are provided in each area, one in the Recovery area, one in the por Packaging and Warehouse personnel, one in the Administration hanagement and maintenance and vending machines are available in the erials are stored in dedicated tanks. The warehouse for raw materials, aterials are separate from the finished product warehouse. One issue Details of non-conformities if identified during the audit: 5.7 - A partial uncovered pallet of FIBC was observed in the FIBC packing room.





Air, Water, Energy	All of the utilities supplied has been addressed in the quality manual. The water is supplied from County of Brunswick. Water quality reports are available. Steam is supplied from Capital Power. Letter of compliance is available. The facility has capability of generated their own steam when Capital Power cannot supply the demand. Boiler chemicals are all FDA approved with appropriate documentation on file. There is a program to test amines levels when facility generated steam condensate is produced. 3 rd party contracted lab Environ Chemical, conducts monthly quality tests on city water and steam condensate. Compressed air,instrument air is used, it is filtered and food grade oil is used. The filters are changed on a prescribed frequency as designated by the manufacturer's recommendations. The lighting is suitable for the intended purposes.	
		Details of non-conformities if ic. of file. dur. of le audit:
	Details to Non- Conf.	
Waste Management	Waste water and product was e are nated by ADM's WWTP. Labelled product containers here de aced, label numbers aere required to be recorder and accounted for prior a displeal. Non-conforming products transfer rejected are disposed of via the WWTP.	
	Details to	Details of non-conformities if identified during the audit:
	Non- Conf.	





Equipment suitability, cleaning and Maintanace	This is a closed system recovery that had food grade equipment. All equipment is closely monitored to any issues that may arise. The overall design is suitable for the intended purposes. See NC 8.2 below. Cleaning is assigned by the supervisor. A cleaning program using the clean as you go method is in use. Operators are assigned cleaning on a daily/weekly schedule requiring sign off and verification by area lead. Dedicated and color coded cleaning tools are in use. An online preventative & predictive maintenance system (MAXIMO) is in use that automatically generated action requests. Work orders are entered into MAXIMO for identified maintenance items from audits and daily monitoring for work that are handled by Maintenance. Any maintenance work that is food safety related required release back to production acceptance. The release back to production include a verification and sign off by Operations supervisor and clean-up or sanitizing as appropriate. In general, sanitation is quite good for the processes involved. Temporary repairs were observed in one area. See NC below.		
	Details to	Details of non-conformities if identified d_ring_e_au_it: 8.2 - A gasket covering the anacit neater r ort r as deteriorated allowing	
	Non- Conf.	for possible contamination.	
		8.6 - Several pieces of duct tape wire used in the C513 crystallizer area to suppress vacuum leaks. The was sold tated and initialed per site's	
		policy. No workorders could be provided indicating they were scheduled	
		for repair.	

Purchased Materials	This facility managed the suppliers clourchased materials and services by risk ranking. Based on risk evclin, machiment of suppliers range from requiring audit of the supplier facility, 3rd plot or tritication, letter of guarantees, COA and/or receiving inspection acceptance. A procedure on how to nonder the purchasing of materials has been developed and is in accordance to the standard. Some suppliers are managed by Corporate Global Sourcing Unit Supplier and services unique to the facility are managed by the facility Purchaning Dipartment. Incoming bulk non-inaterials and chemicals trucks and tankers are inspected for proping paper ork, seals, wash tickets and required lab testing (as applicable) prior to unloaling. Incoming migredients and packaging materials are inspected for proper paperwork, trailer conditions, seals on full loads, QA inspections, COA and or lab testing.
	Details of non-conformities if identified during the audit:
	Details to Non- Conf.





Prevention of Cross- contamination	sampling protesting is con There are no place. Allerg included emp Glass and br included in th audits condu Employees a Policy Tech S Only new wo minimized by A chemical o Equipment re	nination is unlikely due to the nature of the product produced. A micro gram exists for water and steam condensate used in the process. Micro ducted by 3 rd party lab, Environ Chemical. a allergens in the product or in the process. An allergen program is in the statements from suppliers are obtained. The allergen program bloyee training and all employees has received the training. ittle plastic program is generally well managed. An audit program is the monthly GMP audit. Glass and brittle plastic policy #169, the glass cted on January to date and Glass Breakage report folder were reviewed. Ire trained on this policy as part of the Food Safety program training and SOP review. od pallets are used in the warehouses. Potential contamination is y use of non-wood tools and inspection of incoming materials pallets. ontrol program is in place and is observed to be well managed. equiring food grade lubricants are identified and the PM checklist of these tated the food grade requirement. Is were not observed covering equipment. This is a correction to previous Details of non-conformities if ide
Cleaning, sanitasion and desinfection	Details to Non- Conf. A cleaning program has been developed and similar managed. Cleaning is assigned by the supervisor. Dedicated and should only a cleaning tools are in use. List of approved cleaning chemicals is a vilation, cleaning chemicals noted in the facility are labelled, stored safely, identified as 1 od or non-food grade. All evidence noted during the automatical in the variable of	
	Details to	
	Non- Conf.	11.3 - Several instances of parts and tools were observed on floors, grates, and cross-beams. Areas under the sifters had large accumulation of product.
		grates, and cross-beams. Areas under the sifters had large





Pest control	The facility contracted Steritech as the Pest Control Operator (PCO). Services are conducted on a monthly basis for the exterior and weekly on the interior. Service reports indicated no abnormal activity. An annual review was conducted by Steritech with the facility contact personnel (QA manager). Trend analyses for all pest types were provided but could be improved. The pest control map were verified as current 2018-02-06. All licenses are noted on file for the operators. All pesticides approved for use were acceptable for use at food processors. The pesticides agreed upon by the facility and the PCO must meet NC EPA and ADM compliance. Overall pest activity was very low and pesticide usage was limited to bait stations.		
	Details of non-conformities if identified during the audit:		
	Details to		
	Non- Conf.		

Personal hygiene	Appropriate number of restrooms, locker room, and 'reak room are provided and appropriately located away from the Pack, ning it oms. Signage to wash hands and hygiene training included details on how one when hands should be washed. Gloves are required throughout the facility. Dis os able gloves are available and worn by Packaging operators and were other and the used. Hairnets and beard nets are require ' in the drum and supersack packing rooms and when conducting the scalping creer checks and are available at each entry points. Uniforms are provided to all improves. Maintenance personnel uniforms were laundered by a laundry set rice which was with Unifirst, an ADM globally sourced vendor. Illness and medical realth status reporting awareness are included in the GMP guidelines/polity, and tition, personal behaviour i.e., eating, drinking in designated areas, inwellk ty control was included. This was a smoke free facility. Training on GMP and hygic the twas conducted annually for all employees including contractors.	
	Details of non-conformities if identified during the audit:	
	Details to Non- Conf.	
	1	





Rework	The non-conforming procedure detailed acceptable handling of issue products i.e., reprocess back into product stream, downgrading or waste. Disposition of non- conforming product are under QA control and is discussed at management meetings. Non-conforming packed products are labelled accordingly and quarantine status placed within the electronic inventory system where held products are not visible to Shipping to be able to select for shipment. Traceability is able to be maintained during any rework process. This was evidenced during the recall exercise. Log sheets are used to capture all products reworked into the product steam. Mock recall and traceability exercises are conducted to challenge this process.	
	Details of non-conformities if identified d ring e au lit:	
	Details to Ion- Conf.	
Recall / Withdrawal	The recall program is tested on an annual reque, cy. A list of employees on the recall earn has been developed. An SOP has in pince defining the procedure. During the judit, the recall program was to ted in the score completed within 2.5 hours. The recall procedure included a one-step in on, strop down trace. Employees involved in the recall program are aware of their responsibilities. Overall, his is a well-managed program, has d on the well-organized records maintained on dectronic database files	
	Details of non-conformities if identified during the audit:	
	lon- Conf.	





Warehousing	Bulk raw materials are stored in dedicated tanks. The warehouse for raw materials, packaging materials are separate from the finished product warehouse. FIFO is in placed and managed in an electronic database. Incoming bulk raw materials and chemicals trucks and tankers are inspected for proper paperwork, seals, wash tickets and required lab testing prior to unloading. Incoming ingredients are inspected for proper paperwork, trailer conditions, seals on full loads, QA inspections, COA and or lab testing.
	Details of non-conformities if identin. I during the audit:
	Details to Non- Conf.
Consumer Information	Product labels are strictly contributed and accounted for. Strict control of pre-printed labels included restricted acce is to looked storage cabinet and records of destruction maintained. Product wastes and rejecting are processed by the facility WWTP, defaced of labelled containers prior to relevance disposal.
	Details of non-conformities if identified during the audit: Details to
	Non- Conf.





Additional Requirements findings				
	Summary of findings according to FSSC 22000 Version 4.1 additional Requirements,			
	while highli	while highlighting applicable sections shortly and in particular the ones where NC were		
	noted including reference to the checklists with more details.			
Management of services	Summary:	Services are managed at corporate purchasing and are handled similarly to ingredients. The company is fairly well vertically integrated so few services are contracted. Service agreements with Steritech (pest control), Unifirst (laundry), and the ADM Packaged Carrier Contract Agreement were reviewed and found to meet the criteria of the standard. Details of non-conformities if identified during the audit:		
	Details to	5		
	Non- Conf.			
Product	Summary:	Product labels are strictly controlled and accounted for. Strict control of		

Product	Summary:	Product labels are strictly controlled and accounted for. Strict control of
Labelling		pre-printed labels included restricted access to locked storage cabinet and records of destruction maintained. As this product is for further processing, labelling requirements are not detailed. Labels include product name, product code, weight, and a statement "for further processing". All labels include the Kosher and Hall Insignia.
		Details of non-conformities if ident field ring the pudit:
	Details to	
	Non- Conf.	

Logo use	Summary:	The FSSC logo is not used
		Details of neta-confermities if identified during the audit:
	Details to	
	Non- Conf.	

Management of allergens For categories C, I, and K only	Summary: T'ere are no allergens used in the process. The site does train annually challer en awareness. All non-production chemicals were vetted for aller en inclusion and all new chemicals are evaluated.
	Details of non-conformities if identified during the audit: Details to Non- Conf.

Environment al monitoring For categories C, I, and K only	Summary:	An environmental monitoring program is in place and detailed in SOP.164. Swabs are taken at multiple product contact points withing the packaging room twice per year and evaluated for salmonella and listeria by a certified lab (Silliker). Certification document was reviewed. Since the products are low pH and water activity, frequency is adequate. Reviewed the results from 2018-12-19. All results were negative for pathogens.
	Details to Non- Conf.	Details of non-conformities if identified during the audit:

Formulation of products For category DII only	Summary:	N/A
	Details of non-conformities if identified during the audit:	





	Details to Non- Conf.				
Management of Natural resources For category	Summary:	N/A			
A only	Details to Non- Conf.	D	etails of non-conformities if identified during the audit:		
	Non- Com.				
Conformation	Conform that the	Please mark only the corresponding section		Confi Yes	rmation No
that audit objectives	audit		Changes to the certified client and its management system		
have been	objectives according to		Verify continuous management system impleme "ation		
fulfilled	FSSC 22000	Initial	Review effectiveness of measures arising from the p. Vious audit		
	Requirement and have	(Stage 2)	(if available) Confirm fulfillment of certification requirem ints		
	been fulfilled		Enquiries on aspects of certifica nr (Cuiplai, n)		
			Reviewing any client's statements w. respect to its operations (e.g. promotional material, y 2003)		
			Changes to the certified c nt and . management system	\boxtimes	
			Verify continuous management system implementation	\boxtimes	
		Surveillance audit	Review efit, tiven, is time sures arising from the previous audit (if available)	\boxtimes	
			Confirm fullimer. of ceruilcation requirements	\boxtimes	
			_nqu [*] ies asper s of certification (Complaints)	\boxtimes	
			 viewin_ any client's statements with respect to its operations (e.g proi. tional naterial, website) 	\boxtimes	
			coul, evaluate performance of the management system over the period of certification		
			Review of previous surveillance audit reports		
		Rr C rtificatio.	Review effectiveness of measures arising from the previous audit (if available)		
		or ransfer	Evaluate effectiveness of the management system in its entirety in the light of internal and external changes		
			Evaluate demonstrated commitment to maintain the effectiveness and improvement of the management system		
			Evaluate achievement of the organization's policy and objectives		
Unresolved issues	Unresolved resulting from the audit finding(s)				

Annexes (in local language)			
Annex I:	Audit plan and audit program		
Annex II:	Attendance Sheet		
Annex III:	ISO 22000:2005 checklist		
Annex IV:	PRP standard checklist(s) applicable to scope		
Annex V:	Additional FSSC requirements checklist		