

Principle 6: Establishing Verification Procedures

Chapter 13 Verification Procedures

HACCP A Systematic Approach to Food Safety

OFFICE OF THE TEXAS STATE CHEMIST



HACCP Principles

- 1. Conduct a Hazard Analysis (HA)
- 2. Identify Critical Control Points (CCPs)
- 3. Establish Critical Limits (CLs)
- 4. Establish CCP Monitoring Requirements
- 5. Establish Corrective Actions (CA)
- 6. Establish Verification Procedures
- 7. Establish Record-Keeping Procedures

OFFICE OF THE TEVAS OTATE OUTSING

HACCP Principle 6: Establish Verification Procedures

Definition of Verification- Those activities, other than monitoring, that determine the validity of the HACCP plan and that the system is operating according to the plan

FSMA definition

Verification means the application of methods, procedures, tests and other evaluations, in addition to monitoring, to determine whether a control measure or combination of control measures is or has been operating as intended and to establish the validity of the food safety plan.

OFFICE OF THE TEXAS STATE CHEMIST

Validation

Definition of Validation- That element of verification focused on collecting and evaluating scientific and technical information to determine if the HACCP plan, when properly implemented, will effectively control the hazards

FSMA definition

Validation means obtaining and evaluating scientific and technical evidence that a control measure, combination of control measures, or the food safety plan as a whole, when properly implemented, is capable of effectively controlling the identified hazards.

OFFICE OF THE TEXAS STATE CHEMIS

4

Verification and Validation

- Verification
 - "Do we do what we say and say what we do?"
- Validation
 - "Is it the right thing to do?"

OFFICE OF THE TEXAS STATE CHEMIS

Validation

Initial Validation

- Initial validation is conducted during implementation of the HACCP plan.
 - > Includes a review of the hazard analysis
 - > HACCP team also reviews CCPs, CLs, and monitoring
- Information needed to validate includes
 - > Expert advice
 - > Scientific studies
 - > In-plant observations

OFFICE OF THE TEXAS STATE CHEMIST

6

Validation

Revalidation

- Subsequent validation when changes are made to the process that could impact hazard analysis
- As new information becomes available

OFFICE OF THE TEXAS STATE CHEMI

Questions to ask during reassessment

- Are there additional hazards that should be addressed in the HACCP plan?
- Have any changes occurred or is there any new information for the hazard analysis?
- Are the CCPs and control measures still appropriate?
- Are the CLs adequate based on current information?
- Are the activities in each section of the plan still adequate and appropriate for identified hazards?

AFFIRE OF THE TEXAS STATE SHEMIST

FSMA Animal Feed Validation

The validation of the preventive controls: (§507.47)

- 1. Must be performed by a qualified individual:
 - Prior to the implementation of the food safety plan or, when necessary, within 90 days or later if justified by qualified individual and
 - Whenever a reanalysis of the food safety plan reveals the need to do so.
- 2. Must include collecting and evaluating scientific and technical information to determine whether the preventive controls, when properly implemented, will effectively control the hazards that are reasonably likely to occur

OFFICE OF THE TEXAS STATE CHEMIST

Reanalysis

Reanalysis

- (a) Reanalysis every three years (§ 507.50)
- (b) Reanalysis (1) whenever a significant change in activities (2) whenever new information about potential hazards (3) whenever appropriate after an unanticipated animal food safety problem (4) when you find preventive control(s) are ineffective
- (c) Complete reanalysis before changes
- (d) Revised written food safety plan
- (e) Performed by a qualified employee
- (f) When FDA requires reanalysis

OFFICE OF THE TEXAS STATE CHEMIS

40

Verification - three items

- Verification of Prerequisite Programs
- Verification of CCPs
 - Calibration
 - Records review
 - Independent check
- Verification of HACCP Plan

DEFICE OF THE TEXAS STATE CHEMIST

Verification of CCP's

- Involves the day-to-day compliance of the activities at each CCP to determine if they comply with the HACCP plan
- □ Verification activities developed by the HACCP team

OFFICE OF THE TEXAS STATE CHEMIST

12

Verification of CCPs - Calibration

- □ HACCP plans rely on accurate measurements (e.g. temperature, pressure, pH, flow-rate, water activity)
- Specify instruments or equipment and their calibration frequency and individual responsible in the plan.
- Goal, accurate measurements
- Records for calibration activities

OFFICE OF THE TEXAS STATE CHEMIS

TATE CHEMIST

Verification of CCPs – Records Review

Purpose of record review is to verify that:

- Records were prepared correctly
- Monitoring activity and frequency were performed as required in the HACCP plan
- No monitoring activities were missed
- All monitoring results were within the CLs and any deviation was identified

OFFICE OF THE TEXAS STATE CHEMIST

Verification of CCPs – Corrective Action Records Review

Purpose of corrective action records review

- CA record for each deviation
- Documentation of the deviation (magnitude)
- Affected product was identified and isolated
- CA were conducted according to the HACCP plan
- Final product disposition
- Individuals who performed CA were identified
- All decisions justified
- Report was prepared correctly

OFFICE OF THE TEXAS STATE CHEMIS

Independent Check

Independent checks provide a second level of assurance that the CCP is providing adequate control of the hazard and/or that the hazard is being controlled as intended.

OFFICE OF THE TEXAS STATE CHEMIS

46

Microbial Testing to Verify CCP's

- Useful for periodic CCP verification
- Example...
 verify microbial
 safety of
 ingredients

OFFICE OF THE TEXAS STATE CHEMIS

HACCP Plan Verification

Conducted periodically

- Record review
- On-site Audit

OFFICE OF THE TEXAS STATE CHEMIST

18

HACCP Plan Verification - Records

- Current HACCP plan
- Audit reports of prerequisite programs
- Product/process description, flow diagram
- Monitoring, CCP verification, calibration and CA records
- Previous HACCP audit reports

OFFICE OF THE TEXAS STATE CHEMIST

HACCP Plan Verification On-site Audit

- Confirm operation at the CCP
- Confirm operator's knowledge of CCP's operation, the CLs, and the monitoring and CA recordkeeping activities required by the HACCP plan
- Observe the operator perform monitoring
- Examine in-process monitoring records

OFFICE OF THE TEXAS STATE CHEMIST

FSMA Animal Feed Verification

(a) You must verify that preventive controls are consistently implemented and effective:

- 1. Calibration of monitoring and verification instruments,
- 2. Product testing for pathogen or other hazard,
- 3. Environmental monitoring,
- 4. Review of records
- 5. Other activities as appropriate

(b) You must establish and implement written procedures for the following:

- 1. Method and frequency of calibrating process
- 2. Product testing
- 3. Environmental monitoring

OFFICE OF THE TEXAS STATE CHEMIST

Process Step CCP	Hazard	Record	Responsibility	CCP Verification
Bulk Receiving	Prohibited animal protein			Short Term Daily review of receiving log and paperwork by QA/QC department
				Long Term Operational audit performed by designated management personnel to make sure Receiving Bulk Ingredients SOP is followed

