



Downloaded Red Tractor  
Standards Manual

# Table Of Contents

Quality Management System (1)	4
Quality Management Structure (1)	5
Documentation Requirements (1)	6
Information Relating to Safety (1)	7
General requirements (2)	8
Personnel &#8211; Production, Storage and Handling (2)	9
Personnel &#8211; Processing (2)	10
Processing Facilities and Equipment (2)	11
Storage Facilities Non feed ingredients (2)	12
Stock Control (2)	13
Planned Maintenance ()	14
Driers/Drying (2)	15
Cross-Contamination (2)	16
Pest Control (2)	17
Cleaning (2)	18
Waste Management (2)	19
Dust Control (2)	20
Process water and water used for cleaning purposes (2)	21
Control of contaminants (2)	22
Sieves, Screens, Filters and Separators, Magnets and Metal Detectors (2)	23
Livestock Health monitoring (2)	24
Transport (3)	25
HACCP (4)	26
Raw Materials (4)	27
Buying-in and Trading of Feed ingredients (4)	28
Assessment of Suppliers (4)	29
Control of Monitoring and Measuring Devices (4)	30
Delivery Documents and Labels (4)	31
Identification of products Not ntended for Feed use (4)	32
Inspection (4)	33
Sampling (4)	34
Analysis (4)	35
Undesirable Substances (4)	36
Microbiological Analysis (4)	37
Testing Laboratories (4)	38
Test Records (4)	39
Traceability of oilseeds (4)	40
Non Conforming Products (4)	41
Complaints Procedure (4)	42
Internal Audits (4)	44

# Cold Crush

**Key** – Those standards which have greater significance (all other standards are normal)


**Recommendation** – Those which do not affect certification


**New** – A completely new standard which the member must now adhere to

**Revised** – A standard that has changed and requires the member to take some different or additional action to before

**Upgraded** – The standard has been upgraded to a Key standard or from a Recommendation to a full standard

**Appendix** – this is referenced in the 'How you will be measured' column and indicates that additional information is provided in the Appendices.

 This icon indicates that a record is required.

 **Where to find help** – at the end of each section we have indicated where you can get extra guidance if you need it.

# AIM: Quality Management System (1)



1.1

## Standards

The participant must establish, document, implement and maintain a Quality Management System (QMS). The QMS must be adapted to incorporate relevant regulatory and other safety related developments, as they occur.

---



1.1.1

## Standards

The structure of the QMS must include policies, requirements and documented procedures that maintain feed ingredient safety. This includes demonstrating compliance with relevant legislation and meeting requirements of customers.

---



1.1.2

## Standards

The QMS must ensure that all those activities that could impact on the safety of the feed ingredients produced / processed are consistently defined, implemented and maintained in the organisation.

---



1.1.3

## Standards

The QMS must ensure that feed safety objectives are established and maintained.

---



1.1.4

## Standards

The participant must review at least annually, the continuing suitability and effectiveness of feed safety and quality management systems. This review must include assessing opportunities for improvement and the need for changes to the safety and quality management systems. Management reviews must be recorded.

---

## AIM: Quality Management Structure (1)



1.2.1

### Standards

Any personnel involved in feed safety related tasks must be competent for the tasks that they undertake. Records of the participant's evaluation of the competence of personnel must be retained and kept updated.

---

## AIM: Documentation Requirements (1)



1.3

### Standards

Participants must produce and implement their own set of operating procedures that incorporate the requirements of this standard.

---



1.3.1

### Standards

The QMS must be appropriately documented. Documentation must refer to all the requirements for the QMS described in section 1.1 • Documents required by the Hazard Analysis Critical Control Point (HACCP) system (see 4.1) are also required

---



1.3.2

### Standards

All records must be kept for a minimum of two years, unless longer periods are required by legislation.

---

## AIM: Information Relating to Safety (1)



1.4

### Standards

Information relating to safety issues that may affect the operation of the facility must be reliably and effectively transmitted to those personnel with responsibility for the areas involved. Any changes in practices or procedures necessitated by new information must be implemented effectively.

---

## AIM: General requirements (2)



2.1

### Standards

Storage and handling of oilseed raw materials must be carried out in conformity with AFS Combinable Crops Standards (Combinable Crops Standards Section 6 & 7).

---



## AIM: Personnel – Production, Storage and Handling (2)



2.2

### Standards

All personnel involved in the production, storage and handling of oilseeds must have received appropriate training as required under the AFS Combinable Crops Standards.

---

## AIM: Personnel – Processing (2)



2.3

### Standards

In most cases there may only be a single person involved in the process. For staff involved in the processing of oilseeds training must include an introduction to HACCP principles

---



2.3.1

### Standards

Accurate and up-to-date training records must confirm any relevant training that has taken place and that the participant has assessed personnel as competent to carry out the tasks that they undertake

---



2.3.2

### Standards

Protective clothing must be worn wherever contamination of oilseeds or meal by personnel is identified as a risk by the risk assessment study. All clothing and equipment must be maintained in hygienic condition.

---



2.3.3

### Standards

Clear policies on smoking and eating / drinking on site must be made known to employees and visitors and must prohibit eating, drinking and smoking in areas where these activities may adversely affect feed ingredients. If necessary, separate facilities must be provided.

---



2.3.4

### Standards

Participants must ensure that appropriate hygiene training has been given to all personnel involved in the direct handling of processed meal. No person known to be suffering from a disease which may adversely affect the safety of processed meal may handle the processed meal.

---



2.3.5

### Standards

The participant must ensure that engineers and contractors working on site are controlled in such a way that maintenance and building works do not adversely affect either raw material or processed meal safety. There must be a procedure in place to ensure that appropriate cleaning and tidying has been completed prior to resuming activities in that area.

---



2.3.6

### Standards

Any personnel who have been in contact with livestock or livestock housing and/or equipment must change all outer clothing including footwear and must wash their hands before entering the processing area.

---

## AIM: Processing Facilities and Equipment (2)



2.4

### Standards

Conditions within buildings must be suitable and must not adversely affect the safety of any oilseeds processed in the buildings. The meal processing and storage area, including loading and unloading areas must be secure and clearly separate from any livestock enterprise on the unit and must not share a common enclosed airspace with the livestock. All equipment used for processing oilseeds must be fit for the purpose for which it is used and be designed and constructed to ensure that, where necessary, it can be adequately cleaned, disinfected and maintained to avoid the contamination.

---



2.4.1

### Standards

Risk assessment procedures must be used to identify and control any hazards that may be associated with particular equipment. Where appropriate, corrective action must be taken as a result of these findings. Records must be kept detailing the date and nature of any corrective actions undertaken

---



2.4.2

### Standards

All drains, gutters and down-pipes must be designed and maintained in a manner that ensures they do not present a hazard to any processed oilseed meal stored on the site.

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2.4.3

### Standards

Vehicle access must be free from any material which as come into contact with farm animals and free from livestock faeces, litter and effluent. Livestock buildings must not drain onto the processing facility or onto its access.

---

## AIM: Storage Facilities Non feed ingredients (2)



2.5

### Standards

Adequate facilities for storage of non-feed ingredients (e.g. Cleaning and disinfection / sanitising chemicals, lubricants, fuels, etc) must be provided.

---

## AIM: Stock Control (2)



2.6

### Standards

Stock control measures must be documented and adequate to ensure that oilseed meal does not deteriorate prior to use / despatch, or during storage. Stock control measures must also ensure that oilseed meal is delivered out on a first in, first out basis

---

## AIM: Planned Maintenance ()



2.7

### Standards

All processing equipment must be subject to a programme of planned maintenance that ensures it is kept in safe and hygienic working condition. Records must be kept of maintenance carried out on all equipment critical to the production of safe oilseed meal.

---

## AIM: Driers/Drying (2)



2.8

### Standards

Any drying of oilseeds must conform to AFS Combinable Crops Standard 6.11

---



2.8.1

### Standards

Where participants receive oilseeds that have been dried prior to receipt, the sellers must be able to demonstrate that no additional hazards have been introduced to the product during the drying and that the drying process has conformed to the AFS Combinable Crops Standard 6.11.

---



2.9

### Standards

Participants must ensure that formal systems are in place that minimise the risk of cross-contamination of oilseeds or oilseed meal with other products. If participants are involved in the processing of more than one kind of oilseed they must be able to demonstrate proper segregation of both raw materials and feed ingredients. Where processing is a continuous process, procedures must be in place to ensure any crossover material is segregated and managed as non-conforming. Particular care must be demonstrated where oilseeds with significantly different properties, but of similar appearance are processed in the same facility. Examples include 'any origin' and 'Non GM products'; 'double zero' and 'high erucic' rapeseed.

---





2.10

### Standards

Pest control measures must conform to AFS Combinable Crops Standards 6.5, 6.7, 6.15 7.0 and 7.2. On units where livestock are also kept the pest control plan must extend to cover the livestock enterprise. Consideration should be given to the rodent baits used on sites where rapeseed (canola) processing is undertaken. Evidence suggests that levels of Vitamin K in this oilseed may act as an antidote to the anticoagulants used in many bait preparations.

---

## AIM: Cleaning (2)



2.11

### Standards

Cleaning of storage areas, and all equipment used for harvesting, transportation, handling, conveying and loading of oilseeds or meal must conform to AFS Combinable Crops Standards 7.0, 7.1 and 7.4

---

## AIM: Waste Management (2)



2.12

### Standards

Any materials considered to be waste must be visually identified as such and promptly segregated in a manner that will eliminate the likelihood of accidental or inadvertent use.

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2.12.1

### Standards

Waste must not be collected or stored in any container that may be used for raw materials or feed ingredients.

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2.12.2

### Standards

Containers used to store waste that is attractive to pests and vermin must be covered. Such waste containers must also be stored away from raw material and feed ingredient storage or production areas and removed from site as frequently as practical.

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2.12.3

### Standards

All waste must be disposed of legally

---

## AIM: Dust Control (2)



2.13

### Standards

Participants must take reasonable precautions to limit the accumulation of dust and other residual materials in areas where raw materials and feed ingredients are either processed or stored.

---

## AIM: Process water and water used for cleaning purposes (2)



2.14

### Standards

A risk assessment of any water that comes into contact with either the oilseed meal, or any process / handling equipment, must be included in the HACCP study.

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2.14.1

### Standards

If a risk is highlighted participants must either carry out water quality tests or receive test results from their water provider at a frequency dictated by risk assessment, to ensure that standards required by the risk assessment study are being achieved. Records of water quality tests must be maintained.

---



2.14.2

### Standards

Where additives (such as water softeners, anti-corrosion agents, etc.) are included in water that will come into contact with feed ingredients, either as water or steam: i) These additives must be considered in the HACCP study. ii) Any dosing systems must be calibrated and controlled to ensure the correct level of addition. iii) Records of additive dosing must be maintained.

---



2.14.3

### Standards

No waste water or material recovered from waste water systems may be incorporated into feed ingredients.

---



2.14.4

### Standards

Separate water systems (e.g. fire control) must be identified and must not connect with, or allow reflux into, water used for processing or cleaning.

---

## AIM: Control of contaminants (2)



2.15

### Standards

Control of contamination by mycotoxins must conform to AFS Combinable Crops Standard 13.0

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2.15.1

### Standards

Controls must be in place to protect oilseeds and feed ingredients from other contamination. Where oilseed processing is undertaken close to edible oil refining, it Standards for Cold Crush Oilseeds – final rev 1 July 07 5 is often the practice for bleaching earth, gums and other refinery products to be added into the feed ingredients. Where this is the case, participants must be able to demonstrate that these products will not be hazardous to the feed ingredients.

---



2.15.2

### Standards

The contamination of oilseed meal with non-food grade hydraulic oils or lubricants must be avoided and the risk of contamination with food grade hydraulic oils and lubricants must be minimised.

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## AIM: Sieves, Screens, Filters and Separators, Magnets and Metal Detectors (2)



2.16

### Standards

Magnets and / or metal detectors must be included in processing systems where indicated as necessary by the risk assessment study.

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2.16.1

### Standards

Critical sieves, screens, filters, separators, magnets and metal detectors must be regularly checked to ensure that they are not damaged and that they continue to operate effectively. Records of checks of all magnets and metal detectors must be kept.

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2.16.2

### Standards

If separators, sieves or screens are used to clean products and cleanings from this equipment form a component of the oilseed meal produced, producers must be able to demonstrate that potentially harmful cleanings are separated from those destined for feed use. Such harmful cleaning must be disposed of and not reincorporated into the meal at any stage.

---



2.17

### Standards

Where cold crush oilseed processing takes place on a site where livestock are kept, there must be a regular herd health monitoring system\* carried out by a veterinary practitioner at intervals advised by the practitioner, with special attention to salmonella and to any easily transmissible diseases related to both human and animal health. Records of this monitoring must be kept. \*Note: Members of farm assurance schemes covering livestock production can use existing documentation such as Herd Health Plans or Flock Health Plans as part of evidence of a regular herd health monitoring system

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## AIM: Transport (3)



3.1

### Standards

Transport used for the delivery of oilseeds or oilseed meal must conform to AFS Combinable Crops Standards 8.1 – 8.12 as appropriate. In addition, no vehicle used for the transport of livestock may be used for the transport of oilseed meal either inside the site or for external delivery

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3.1.1

### Standards

If the participant is responsible for arranging transport of oilseed meal to purchasers operating under a certificated assurance programme, he must ensure that the specific transport requirements of that programme are met.

---



4.1

### Standards

A formal food/ feed safety risk assessment must be carried out with the aim of identifying and controlling hazards that might adversely affect the integrity of stored materials or the safety of any oilseed meal supplied. Risk assessments must be carried out in accordance with recognised HACCP principles as summarised below and detailed in Appendix 1:- Standards for Cold Crush Oilseeds – final rev 1 July 07 6 i) Establish a risk assessment team (if more than one person is involved in the processing; ii) Define process steps iii) Carry out hazard analysis iv) Establish critical limits v) Identify Critical Control Points vi) Implement Control Measures vii) Establish Corrective Actions viii) Carry out review/internal audits

---



4.2

### Standards

Participants must record the following for the oilseeds utilised to produce feed ingredients: i) The name and address of the supplier of the raw material. ii) Information of the production or process from which the raw material is derived. iii) A risk assessment for the oilseeds, identifying potential hazards (e.g. type of drier, maintenance, bitumen floor joint sealant etc) and the means by which these hazards are controlled by the supplier, the participant or both parties.

---



4.2.1

### Standards

Where risk assessments identify the need for specific controls or limits to ensure the appropriate management of potential hazards, these must be included in the specifications agreed with suppliers of the affected raw materials.

---



4.3

### Standards

Where participants buy-in oilseed meal in order to meet contractual agreements, whether due to mechanical breakdowns or as part of normal trading activity, oilseed meal may only be sourced from companies currently certificated against this standard

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4.4

### Standards

Oilseed suppliers must be members of a recognised assurance scheme such as ACCS, SFQC or GQA

---

## AIM: Control of Monitoring and Measuring Devices (4)



4.5

### Standards

All inspection, measuring and test equipment used to confirm that oilseed meal meets specified feed safety requirements must be calibrated annually.

---



4.5.1

### Standards

The participant must ensure that: i) Calibration acceptance criteria are defined. ii) Calibrated equipment is traceable to national standards or when this is not possible that the basis of the calibration is defined. iii) All relevant equipment is uniquely identified and traceable to calibration records. iv) The calibration frequency is defined.

---



4.5.2

### Standards

If equipment is found to be performing outside acceptable calibration limits the participant must investigate the effect this will have on the conformity of any feed ingredients and take appropriate corrective action to recalibrate the equipment. Depending on the severity of the discrepancy and the nature of the test, the participant must be able to demonstrate that appropriate action has been taken (for example feed ingredient recall).

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4.5.3

### Standards

Records of the results of calibration and verification must be maintained.

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## AIM: Delivery Documents and Labels (4)



4.6

### Standards

Delivery documents must be clear and unambiguous. All relevant contractual and legal information must be included on delivery documents (or on labels attached to the product packaging).

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4.6.1

### Standards

For oilseed meal sold in bulk, as well as in bags, delivery documents / labels must include any details (such as Statutory Statements) required under Labelling Regulations in the country of production and / or receipt.

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4.6.2

### Standards

Any information provided on delivery documents / labels must be valid for the oilseed meal associated with them.

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## AIM: Identification of products Not ntended for Feed use (4)



4.7

### Standards

Any raw materials, intermediate or finished products produced or stored in the same premises by the participant but not intended for feed use must be clearly segregated from feed ingredients and identified as such during all stages of production / processing, packing, storage, despatch and supply.

---





4.8

### Standards

Participants must have inspection regimes in place that ensure the safety of all raw materials on arrival (if appropriate) and oilseed meal on despatch. Inspections must include, as appropriate, assessment of: i) Colour ii) Physical form iii) Odour iv) Contamination by insect pests, droppings and other extraneous matter v) Mould vi) Excessive damage vii) Compliance with specification

---

## AIM: Sampling (4)



4.9

### Standards

Sampling schedules must be the responsibility of the designated 'Quality Manager'. Details of the location, method and frequencies for sampling must be documented and appropriate for oilseeds and oilseed meal.

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4.9.1

### Standards

All raw materials and feed ingredients must be subject to a sampling regime. Sampling techniques and frequencies must be adequate to ensure true representation of any feed ingredients supplied.

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4.9.2

### Standards

The sampling regime must be appropriate to the volume of oilseeds and oilseed meal concerned.

---



4.9.3

### Standards

Samples of both oilseeds and oilseed meal must be retained for a minimum period of three months, unless risk assessment studies show that shorter periods are sufficient or longer periods required.

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4.9.4

### Standards

Samples must be kept in appropriate, air-tight containers and labelled in such a way as to assist traceability

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4.9.5

### Standards

Storage conditions for samples must be such that deterioration is minimised

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4.9.6

### Standards

Disposal of samples must be controlled under formal procedures and where they are incorporated back into oilseed meal, this must not create any potential hazard.

---



4.1

### Standards

Where analysis is carried out, participants must be able to demonstrate that adequate tests are being undertaken using methodology that is appropriate to the raw materials and feed ingredients concerned. Analysis may be carried out by arrangement with customer(s).

---



4.10.1

### Standards

Testing schedules for analysis must be the responsibility of the designated 'Quality Manager' and must include both chemical and microbiological testing, as identified by the HACCP plan

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4.10.2

### Standards

Testing methodology must be robust enough to ensure both the safety of the oilseeds used and oilseed meal supplied. The nature and frequency of tests carried out must show consideration of the volume and potential risks associated with oilseeds and oilseed meal.

---



4.11

### Standards

In addition to sampling and testing required to establish other analyses, evidence must be available to show that oilseeds meet acceptable, and if applicable, statutory standards for levels of undesirable substances such as mycotoxins, dioxins, heavy metals and pesticide residues. The producer's risk assessment must evaluate the potential hazards arising from naturally occurring toxins (see AFS Combinable Crops Standard 6.18).

---

## AIM: Microbiological Analysis (4)



4.12

### Standards

Sampling and testing schedules for microbiological analysis must be the responsibility of the designated 'Quality Manager'.

---



4.12.1

### Standards

Participants must be able to demonstrate that the level of microbiological sampling and testing carried out will ensure the safety of any feed ingredients supplied.

---

## AIM: Testing Laboratories (4)



4.13

### Standards

The methods of analysis employed in laboratories must be appropriate for oilseeds and oilseed meal being tested

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4.13.1

### Standards

The effectiveness of testing laboratories must be regularly reviewed and approved by one or more of the following methods: i) Accreditation by a nationally recognised accreditation authority according to EN-ISO-17025 for the test under consideration. ii) Validation by participating in relevant ring tests. iii) Validation by other recognised means or comparison with results of a recognised laboratory with verified quality control procedures.

---

## AIM: Test Records (4)



4.14

### Standards

The parameters for acceptance or rejection of both oilseeds and oilseed meal must be clearly defined.

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4.14.1

### Standards

Test results for oilseeds and oilseed meal must be recorded and include clear evidence of action in the event of results falling outside of acceptable parameters.

---

## AIM: Traceability of oilseeds (4)



4.15

### Standards

Participants must be able to demonstrate traceability for the oilseeds utilised to produce oilseed meal.

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4.15.1

### Standards

To ensure traceability of oilseeds, the participant must: i) Record the names and addresses of suppliers of incoming oilseeds, ii) Record the type and quantity of incoming oilseeds iii) Identify the transport means and unique identification reference of the transport for all incoming oilseeds

---



4.15.2

### Standards

Although the participant need not hold all relevant traceability records for oilseeds, they must be capable of accessing such records if required to do so.

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## AIM: Non Conforming Products (4)



4.16

### Standards

Participants must establish a documented procedure for dealing with oilseeds that do not comply with specifications. This procedure must include: i) Identification of batches / lots affected. ii) Documentation for managing and recording non-conforming products. iii) Evaluation of the cause of the non-conformance. iv) Segregation of batches / lots affected. v) Communication with relevant parties. vi) Preventive or corrective action to avoid repetition of the non-conformance.

---



4.16.1

### Standards

Responsibility for review and disposal of non-conforming products must be defined. All incidences of non-conforming oilseeds must be recorded and decisions regarding actions to be taken must only be made by authorised personnel.

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4.16.2

### Standards

Non-conforming oilseeds must be dealt with in one of the following ways: i) Sent to waste ii) Reworked iii) Accepted by concession (if agreed in writing by the client)

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4.16.3

### Standards

Requirements for reprocessing non-conforming oilseeds must be documented and any affected oilseeds be re-evaluated on completion to ensure that the batch / lot concerned subsequently meets specified requirements

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4.16.4

### Standards

The approval and use of reworks (e.g. from quality rejects, customer returns or spillage) must be considered within the HACCP plan. Those that are not approved must become waste and be disposed of accordingly.

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## AIM: Complaints Procedure (4)



4.17

### Standards

Participants must document the procedure for handling customer complaints. This procedure must include systems for: i) Recording the characteristics of complaints. ii) Allocating responsibility for managing complaints. iii) Recording the name of complaining customers. iv) Recording the feed ingredients under complaint. v) Investigating the causes of complaints. vi) Recording any actions taken to address complaints. vii) Recording correspondence with customers with regard to complaints.

---



4.17.1

### Standards

With due regard to the seriousness and frequency of complaints, corrective actions must be carried out in a timely and effective manner.

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4.17.2

### Standards

Where appropriate, complaint information must be used to avoid recurrence and implement ongoing improvements

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4.17.3

### Standards

Wherever possible, complaints must be resolved to the customer's satisfaction.

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4.18

### Standards

Participants must develop a documented recall procedure that ensures customers can be informed promptly in the event of any irregularity that may adversely affect oilseed meal safety

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4.18.1

### Standards

The recall procedure must detail responsibilities and include actions to be implemented in the event of a recall.

---



4.18.2

### Standards

As part of the recall procedure, all relevant contacts must be listed and kept up-to-date. Contacts listed must include the Competent Authorities to be notified in the following circumstances: i) In the event of a serious safety risk. ii) When legal limits are exceeded and national legislation requires notification.

---



4.18.3

**Standards**

Recall procedures must include systems for: i) Identifying the non-conforming oilseed meal batch / lot ii) Identifying the location of affected batches / lots. iii) Management of returned oilseed meal, including segregation from other products. iv) Recording the destination of any recalled products.

---



4.18.4

**Standards**

Products that have been recalled may only be reprocessed or otherwise put back into circulation following formal assessment that it is both legal and safe to do so. Records must be kept of any such assessment.

---



4.19

### Standards

Participants must have a documented procedure for internal auditing.

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4.19.1

### Standards

Internal auditing procedures must require the participant to carry out a programme of planned internal audits to check that internal systems are operating as intended and are also effective. Such internal audits must encompass: i) Compliance with the requirements of this standard. ii) Compliance with the requirements of the participant's HACCP Plan. iii) Compliance with the participant's formal procedures. iv) Compliance with legislation pertaining to feed ingredient safety and quality. v) Satisfaction of specified customer requirements.

---



4.19.2

### Standards

The programme of internal audits must ensure that all relevant activities are audited at least once a year.

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4.19.3

### Standards

All personnel carrying out internal audits must be trained to carry out such audits and be able to demonstrate their effectiveness in the role.

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4.19.4

### Standards

Internal audits must be formally reported to those with responsibility for the area audited and record any aspects where the operations are not in compliance with operational requirements. Such areas of non-compliance must be corrected and audit report records signed off by an authorised person to indicate that problems have been corrected satisfactorily.

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