

Chapter 4.2 HACCP Based Procedures

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1. Introduction

1.1 Legislation

1.2 Characteristics of HACCP based procedures

1.1 Legislation

1.1.1 HACCP legislative framework

The following table summarises the different pieces of legislation that cover FBO and OV responsibilities in relation to HACCP based procedures.

| Regulation | | Issue | Who is responsible? | Other documents |
|-------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Reg (EC) 852/2004 | Ch II, Article 5 | Put in place, implement and maintain a permanent procedure based on HACCP principles | FBO | <ul style="list-style-type: none"> • Commission Guidance • MIG • Food Safety Management Diary for Meat Producers |
| | Annex II, Ch XII | Train staff responsible for the development and maintenance of HACCP based procedures in the application of HACCP principles | FBO | <ul style="list-style-type: none"> • Commission Guidance • MIG |
| Reg (EC) 853/2004 | Annex II, Section II | List of HACCP based objectives for incoming animals accepted for slaughter | FBO | <ul style="list-style-type: none"> • Commission Guidance • MIG |
| Reg (EC) 854/2004 | Ch II, Article 4 | Audit and verification that FBOs apply HACCP | OV | <ul style="list-style-type: none"> • MOC • MIG |

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| | | principles continuously and properly | | <ul style="list-style-type: none">• Food Safety Management Diary for Meat Producers |
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1.1.2 (EC) 852/2004 evidence

The FBO shall provide the OV with evidence of their compliance with the HACCP legal requirements, taking into account the nature and size of the business, and ensure that any documents describing the procedures are up to date at all times.

The instructions in this chapter reflect the minimum requirements expected to consider an FBO plan of HACCP-based procedures adequate and in compliance with the Regulations.

Regulation: (EC) 852/2004, Chapter II, Article 5.

1.1.3 (EC) 854/2004 OV verification of HACCP based procedures

The OV is required to conduct audits to verify that food business operators apply HACCP based procedures continuously and properly to make sure, in particular, that:

- procedures guarantee that the requirements for incoming animals are met
- meat complies with the microbiological criteria
- meat complies with the community legislation on residues, contaminants and prohibited substances
- meat does not contain physical hazards, such as foreign bodies

Regulation: (EC) 854/2004, Chapter II, Article 4, 5.

1.1.4 Key reference documents

The MIG contains information for FBOs on the application of HACCP based principles to comply with the legal requirements as well as advice. It takes account of the Commission's guidance on flexibility and includes generic HACCP plan material. **It should be read by OV's advising on or auditing the application of HACCP principles.**

The European Commission has produced a guidance document for the implementation of procedures based on HACCP principles and to facilitate the implementation of HACCP principles in certain food businesses.

Reference: MOC, Volume 2 Legislation for additional information.

‘The Diary’ has been produced by the FSA for smaller operators and can be found within the MOC titled as ‘Food Safety Management Diary’.

The Diary is specifically designed to facilitate FBOs to keep records relating to the hygienic operation of their businesses. It also includes draft documentation on prerequisites and HACCP.

The use of the Diary by FBOs is voluntary.

Reference: See the topic 2.10 on ‘Principle 7: documentation’ in part 2 for additional information.

1.2 Characteristics of HACCP based procedures

1.2.1 Purpose

HACCP principles are a tool for FBOs to use to control hazards that may occur in food.

HACCP is a set of 7 principles used to assess hazards and establish control systems that focus on prevention of problems rather than relying solely on end-product testing.

1.2.2 Implementation requirements

The successful application of HACCP based procedures requires the following:

- the FBO must already have implemented the hygiene controls that are required by legislation (prerequisites / good hygiene practice)
- requires the full commitment of management and the involvement of the work force

1.2.3 ‘Traditional’ HACCP vs. HACCP based procedures

‘Traditional’, ‘classic’ or ‘technical’ HACCP is not the same as ‘HACCP based procedures’.

Traditional HACCP evolved from spacecraft manufacture to guarantee the safety of astronauts' food. It remains appropriate for industrial production of processed foodstuffs involving for example, sterilisation or pasteurisation steps.

It is however acknowledged in (EC) 852/2004 and particularly in the Commission's guidance on HACCP that such a technical approach may not be appropriate for all types and sizes of food businesses. In the case of meat plants, for example, it can be sufficient to apply the principles in a more flexible way following guides to practice.

1.2.4 'Flexibility': Nature and size of the operations

Flexibility regarding the application of HACCP principles may be applied, taking into account:

- the nature of the operations
- the size of the business

| Flexibility taking into account | Comments |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nature of the operations | <p>In businesses handling food with no significant food safety hazards (for example, greengrocers) a hazard analysis confirming that is the case can be sufficient.</p> <p>In businesses handling many foods (for example, restaurants) a simplified approach using a diary can be sufficient.</p> <p>In businesses involving simple processing (for example, slaughterhouses and cutting plants) a generic plan with a diary for record keeping can be sufficient as long as they are adapted to reflect company conditions.</p> <p>In food manufacturing businesses, particularly with procedures that will eliminate hazards (for example, canning plants) full technical HACCP is more appropriate.</p> <p>OV auditors should consider whether the HACCP based procedures are appropriate for the type of business.</p> |
| Size of the business / documentation | <p>The size of business and resources available will have a bearing on the complexity of the HACCP based system; however a simple, easily managed system can achieve the safe production of food as well as a more complex system.</p> |

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| | <p>A traditional HACCP system relies heavily on recording that all the procedures are being followed correctly, probably by the Quality Control, Quality Assurance or HACCP team.</p> <p>Small and medium sized businesses rarely require the same level of documentation. They may choose to record when things go wrong, called 'exception reporting'.</p> <p>Reference: See the topic 2.10 on 'Principle 7: Documentation' in Part 2 for additional information.</p> <p>OV auditors should note that there is no value in FBO documentation being disproportionate to the level of risk and the recording of HACCP based monitoring procedures being a burden to small-medium businesses.</p> |
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1.2.5 Flexible application of HACCP principles

FBO application of HACCP principles should meet the following criteria:

- identify the main hazards associated with the type of product produced and the operations carried out
flexibility: hazards - generic descriptions of hazards may be sufficient
- identify those Critical Control Points (CCPs) / Control Points (CPs) necessary to control those hazards; the FBO may choose to have in the plan only CPs which are legal requirements
flexibility: CCPs - **generic guidance may include pre-determined CCPs** in the preparation, manufacturing and processing of food
- establish critical (or legal) limits against which to monitor the effectiveness of control measures at CCPs / CPs
flexibility: critical limits - it is not always necessary to fix a numerical value, especially where monitoring procedures are based on visual observation (for example, the faecal contamination of carcasses in a slaughterhouse)
- monitor CCPs / CPs
flexibility: monitoring - may be a simple procedure, for example, a visual observation to monitor whether the correct de-hiding procedure is being applied during slaughter where this part of the slaughter process has been identified as a CCP for preventing carcass contamination

- take the necessary corrective actions based on the results of the monitoring activities
- record the observations and corrective actions taken; the requirement of retaining documents needs to be flexible in order to avoid undue burdens for small / medium businesses

flexibility: recording – in the case of visual monitoring procedures it can be acceptable to record results only when there is a problem and the corrective action that has been taken; that is, ‘exception reporting’; a diary can be a suitable method of record keeping

- verify the HACCP-based procedures

flexibility: verification – checking all aspects of the HACCP plan can be spread throughout the year so that all aspects are verified at least once a year to meet the requirement for ‘regular’ verification

Reference: See the MIG chapter 9 on ‘HACCP’ for additional information.

1.2.6 Review of HACCP based procedures

The HACCP procedures should be reviewed and necessary changes made by the FBO when any modification is made in the product, process or any step.

1.2.7 OV role

OV’s, through auditing, need to determine the level of FBO compliance with HACCP principles always taking into consideration the possibility of implementing simplified HACCP based procedures particularly in small / medium sized businesses.

2. Common Issues of HACCP Auditing

- 2.1 Introduction
- 2.2 Training
- 2.3 Implementation and maintaining HACCP based procedures
- 2.4 Principle 1: Hazard analysis
- 2.5 Principle 2: Determine critical control points (CCPs) / control points (CPs)
- 2.6 Principle 3: Establish critical limits (CLs) / legal limits (LLs)
- 2.7 Principle 4: Monitoring of CCPs / CPs
- 2.8 Principle 5: Corrective action procedures
- 2.9 Principle 6: Validation, verification and review
- 2.10 Principle 7: Documentation

2.1 Introduction

This section covers common issues for OV's to consider when auditing a food safety management system based on HACCP principles in compliance with the regulation.

2.2 Training

2.2.1 Staff responsible for HACCP based procedures

Those responsible for the development and maintenance of HACCP-based procedures have received adequate training in the application of HACCP principles. **Regulation:** (EC) 852/2004, Annex II, Chapter XII, 2.

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2.2.2 Training: common issues

The following table contains examples of common issues that the OV could find when auditing HACCP based procedures and guidance on how the OV should make the assessment to determine FBO compliance:

| Common Issues | OV advice / guidance |
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| <p>No member of staff with formal training</p> | <p>Formal training is not a legal requirement; the FBO however, should show that they have received ‘supervision, instruction and / or training’.</p> <p>This can be achieved in a number of ways including (list not exhaustive):</p> <ul style="list-style-type: none"> • one to one instruction • day courses • in house courses • distance learning courses. <p>These may or may not be accredited courses; however, there should be evidence of training. Examples include: certificates, completed test papers, questionnaires, personal assessment papers and individual training records showing instruction or training received.</p> <p>Reference: See the MIG chapter 9 on ‘HACCP’ and the MOC volume 2 on ‘Commission guidance’ for additional information.</p> |
| <p>The FBO believes they do not require any training at all as the HACCP based system has been written by an external adviser / consultant</p> | <p>If external advisers / consultants are used, they should do so as part of a HACCP team, providing instruction and guidance rather than working independently and writing the system for the FBO. It may mean that the FBO is unable to answer questions or make amendments without reference to the adviser. This raises the question of whether the staff can be maintaining their HACCP-based procedures and has adequate training to do so.</p> <p>Instruction given by the external adviser / consultant to the FBO should be recorded on individual training records.</p> <p>Primary responsibility for food safety rests with the FBO, so ownership of the food safety system should be that of the FBO.</p> <p>Regulation: (EC) 852/2004, Chapter I, Article 1, 1(a).</p> |

2.3 Implementation and maintaining of HACCP based procedures

2.3.1 HACCP implementation and maintaining

FBOs shall put in place, implement and maintain a permanent procedure or procedures based on the HACCP principles taking into account the nature and size of the business.

Regulation: See the MOC volume 2 legislation on (EC) 852/2004, Recital 15 and Article 5, 1 and the EC Commission Guidance document on implementation of procedure based on the HACCP principles.

2.4 Principle 1: Hazard analysis

2.4.1 Hazard identification

The FBO is responsible for identifying any significant hazards that must be prevented, eliminated or reduced to acceptable levels.

Regulation: (EC) 852/2004 Article 5, 2(a).

2.4.2 Hazard identification: common issues

The following table contains examples of common issues that the OV could find when auditing HACCP based procedures and guidance on how the OV should make the assessment to determine FBO compliance:

| Common Issues | OV advice / guidance |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The product description does not include technical information | Flexibility as to what is included should relate to the technical nature of the production process. For example, a meat plant producing a meat preparation and / or meat product is likely to require a greater amount of data such as microbiological criteria, moisture content. than a meat plant that simply cuts and packs a raw product. Large meat plants that have qualified technical teams / advisers may have the necessary skills to write a very detailed and validated technical description of the process; this may not be the case in small – medium businesses with fewer resources. |
| Flow diagram does not show all steps in a process | A flow diagram (CODEX HACCP guideline) used in a traditional HACCP system will describe all inputs into the food business (such as packaging and ingredients), the different stages of process and |

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| | <p>how different foods are stored. Generic systems based on HACCP principles may use a 'simplified' flow diagram; this is an identification (rather than description) of each process step. Certain process steps may be grouped together when the risks are the same, for example, removing bones from a carcass and cutting the boneless meat into cubes. Although these are two different procedures, the hazards will be the same, therefore the process step may be written and simplified as follows:</p> <ul style="list-style-type: none"> • remove bone and prepare meat. <p>Note: It is essential that flow diagrams accurately reflect the whole process (are validated), so that the remaining HACCP principles are correctly considered and described.</p> |
| <p>Hazards identified do not specify individual contaminants such as <i>salmonella</i>, rust, chemicals, peanuts</p> | <p>A technical HACCP study completed by a multi-disciplinary team will be based on extensive research to ensure that all potential hazards, biological, physical, chemical and allergenic are identified for example, the effect of competition from spoilage bacteria on the survival of food-borne pathogens.</p> <p>This level of detail is unlikely to be achieved by small – medium businesses with limited resources, who may address individual hazards by groups, for example,</p> <p>Biological contamination:</p> <p>The naming of each type of pathogenic bacteria that may be a contamination / cross-contamination hazard would be appropriate for larger plants but not for businesses following a generic plan.</p> <p>At the chilling step a generic hazard will be 'Growth of bacteria due to inadequate temperature control'. It is unnecessary for the FBO to have an in-depth understanding of microbiology.</p> <p>It is sufficient that the plan recognises the dangers of poor temperature control in relationship to bacterial growth.</p> <p>Importantly, FBOs should recognise the need to minimise the level of micro-organisms at each stage of the supply chain as there is a risk of cross contamination of ready-to-eat products by raw meat before it is itself cooked.</p> |
| <p>Hazards identified do not specify individual hazards</p> | <p>Physical contamination:</p> <p>Individual hazards, such as parts from machinery, contamination from building fabric, may be combined and identified as 'contamination due to foreign objects'.</p> |

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| <p>such as <i>salmonella</i>, rust, chemicals, peanuts</p> | <p>Chemical contamination:</p> <p>The plan may not identify a significant chemical hazard. Cleaning chemical hazards should be controlled by the application of hygiene controls, such as cleaning procedures (adhering to a Cleaning Schedules) and a list of chemical used (Cleaning Record).</p> <p>In respect of allergenic reactions, few people display allergic reactions to meat, so in raw meat slaughter / processing it is unlikely to be a significant hazard, however this risk would need to be considered when processing a meat preparation or product, which may contain relevant products such as soya, egg, sesame.</p> <p>Reference: See the MIG chapter 5 on ‘Cleaning’ for additional information.</p> <p>OV’s should note the above differences applying flexibility.</p> |
| <p>Inaccurate control measures identified</p> | <p>‘Control measures’ are necessary to control significant hazards from contaminating a food, for example, the chilling of meat down to a desired temperature and the implementation of maintenance procedures.</p> <p>The plan of HACCP-based procedures may not distinguish control measures from monitoring procedures and may include visual inspections / observations as control measures.</p> <p>Visual inspection should be regarded as a monitoring procedure, however, although not technically correct, the inclusion of monitoring as a control measure does not have an adverse effect on the safety of food.</p> |

2.5 Principle 2: Determine critical control points (CCPs) / control points (CPs)

2.5.1 CCP / CP identification

Identifying the Critical Control Points (CCPs) (or Control Points (CPs)) at the step or steps at which control is essential to prevent or eliminate a hazard or reduce it to acceptable levels.

Regulation: (EC) 852/2004 Article 5, 2(b).

2.5.2 Difference between CCP and CP

In the processing of raw meat it may not be possible to prevent or eliminate hazards and reduction steps may not be measurable in the same way as, for example, when food is canned.

Therefore, FBOs may consider that for their product and / or operations there are no 'traditional' CCPs. There are process steps, however, where controls are necessary to meet legal objectives. If these process steps are not chosen as CCPs they should nevertheless be included in the plan of HACCP-based procedures as Control Points (CPs) required by legislation and which are to be monitored and corrective actions taken.

Examples of those control points are:

- acceptance of animals for slaughter, to ensure animals are identified, clean and healthy
- evisceration and dressing, to ensure absence of visible contamination
- SRM controls, to ensure absence and proper disposal of SRM
- temperature controls to limit growth of micro-organisms
- receipt / pre-cut inspection of raw meat, to ensure raw materials are free from contamination

Reference: See the MIG chapter 9 on 'HACCP' for additional information.

2.5.3 CCPs / CPs common issues

The following table contains examples of common issues that the OV could find when auditing HACCP based procedures and guidance on how the OV should make the assessment to determine FBO compliance:

| Common Issues | OV advice / guidance |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CCPs either not present or not identified correctly | <p>In certain food businesses there will be steps in the process that are critical to the safe production of food, for example, cooking a raw food to a specified core temperature. A decision tree may be used to determine CCPs.</p> <p>On the other hand, a small-medium slaughterhouse or cutting plant handling raw meat may follow a generic approach where CCPs / CPs are pre-determined and so a decision tree may not be needed.</p> |

2.6 Principle 3: Establish critical limits (CLs) / legal limits (LLs)

2.6.1 Establishing CLs/ LLs

Establishing critical limits (CLs) (or legal limits (LLs)) at CCPs (or CPs) which separate acceptability from unacceptability for the prevention, elimination or reduction of identified hazards.

Regulation: (EC) 852/2004 Article 5, 2(c).

Limits do not need to be a fixed numerical value that requires measurement. Limits can be monitored through visual observation, for example, faecal contamination of carcasses.

2.6.2 Difference between CLs and LLs

CLs separate acceptability from unacceptability or safe from unsafe food at CCPs. CLs must be at least as strict as legal requirements that apply at that process step for example, temperatures for raw meat.

LLs are values set out in the legislation to be used where FBOs have decided to have CPs (instead of CCPs) which are legal requirements.

2.6.3 CLs / LLs – common issues

The following table contains examples of common issues that the OV could find when auditing HACCP based procedures and guidance on how the OV should make the assessment to determine FBO compliance:

| Common Issues | OV advice / guidance |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hygiene controls set as Critical Limits | In a technical HACCP system CLs may include: <ul style="list-style-type: none"> • values of temperature, time • maximum residue limits • maximum levels (of contaminants) • microbiological criteria • levels of chlorine |
| Hygiene controls set as Critical Limits, | In some cases the plan of HACCP-based procedures may not distinguish critical limits from the application of hygiene controls for |

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| | <p>example, cleaning procedures, maintenance procedures and pest control.</p> <p>Where FBOs have decided to have CPs (instead of CCPs) which are legal requirements, the LLs may include strict adherence to a hygiene control. This does not have an adverse effect on the safety of food.</p> |
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2.7 Principle 4: Monitoring of CCPs / CPs

2.7.1 Monitoring procedures

Establishing and implementing effective monitoring procedures at CCPs (or CPs).

Regulation: (EC) 852/2004 Article 5, 2(d).

2.7.2 Monitoring procedures: common issues

The following table contains examples of common issues that the OV could find when auditing HACCP based procedures and guidance on how the OV should make the assessment to determine FBO compliance:

| Common Issues | OV advice / guidance |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monitoring procedures not recorded | <p>Monitoring procedures are an important part of a HACCP based system, in some cases monitoring may not be recorded, or recorded just to pass an audit, and have no bearing on what is actually happening in the meat plant.</p> <p>Reference: See topic 2.10 on 'Principle 7: Documentation' in part 2.</p> |
| Plan not a true reflection of reality | The monitoring procedures described in the plan should reflect those actually carried out. |
| Disproportionate monitoring procedures | <p>Extensive record keeping may prove to be burdensome for an FBO to maintain (for instance when documentation / records have been produced by a third party (consultant) who does not understand the food business operations, for example,</p> <ul style="list-style-type: none"> • twice daily recordings carried out by staff of the temperature of all knife sterilisers using a probe thermometer; resulting in hundreds of manual checks per week |

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| | <ul style="list-style-type: none">• daily manual recordings of the air temperature of a chiller using a probe thermometer that is already monitored automatically and linked to a warning alarm. <p>Monitoring is ‘the act of conducting a planned sequence of observations or measurements of control parameters to assess whether a CCP (or CP) is under control’ therefore monitoring may or may not include written records of any checks carried out.</p> <p>Information recorded will be dependent on the risk of the operations; that is, the type of food and size of the business.</p> <p>Documentation should not cause an unnecessary burden to small – medium businesses.</p> <p>The FBO may choose to record by exception (using a diary such as the https://foodgov.sharepoint.com/operations/Documents/MOC/fsm_diary.pdf#search=food%20safety%20diary in which case the amount and type of records will not be the same as those used in a traditional HACCP system.</p> <p>The Diary may also be the preferred choice of the FBO to record occasional checks, for example, product temperatures taken on a daily basis, rather than recording on separate sheets of paper.</p> <p>Reference: See the topic 2.10 on ‘Principle 7: documentation’ in part 2 for additional information.</p> |
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2.8 Principle 5: Corrective action procedures

2.8.1 Establishing corrective actions

Establishing corrective actions when monitoring procedures at CCPs (or CPs).

Regulation: (EC) 852/2004 Article 5, 2(e).

2.8.2 Corrective actions: common issues

The following table contains examples of common issues that the OV could find when auditing HACCP based procedures and guidance on how the OV should make the assessment to determine FBO compliance:

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| Common Issues | OV advice / guidance |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Plan not a true reflection of reality | The corrective action procedures described in the plan should reflect those actually carried out. |
| Corrective actions not recorded | <p>Corrective actions are an important part of a plan of HACCP-based procedures to bring production back under control. In some cases the actions taken may not be recorded as the FBO does not want to admit to failures. The impression given is that the FBOs never have any problems with their hygiene control procedures.</p> <p>In fact, the record of corrective actions shows that the plan based on HACCP principles is a 'healthy' plan that works effectively.</p> <p>Corrective actions should ensure that the risk to consumers are eliminated, prevented or reduced for example, trimming of faecal contamination.</p> |
| Corrective actions not recorded | <p>Problems always occur and records should be made when they do.</p> <p>These records are important for the FBO to enable verification of the HACCP based system.</p> <p>Examples on how to record corrective actions may include:</p> <p>a comment made on a cleaning check-sheet when problems have been identified during cleaning by staff entering the problem and the action taken by use of a diary such as the</p> <p>https://foodgov.sharepoint.com/operations/Documents/MOC/fsm_diary.pdf#search=food%20safety%20diary</p> |

2.9 Principle 6: Validation, verification and review

2.9.1 Validation

The FBO is required to validate the plan before implementation and after any amendments or reviews.

2.9.2 Verification

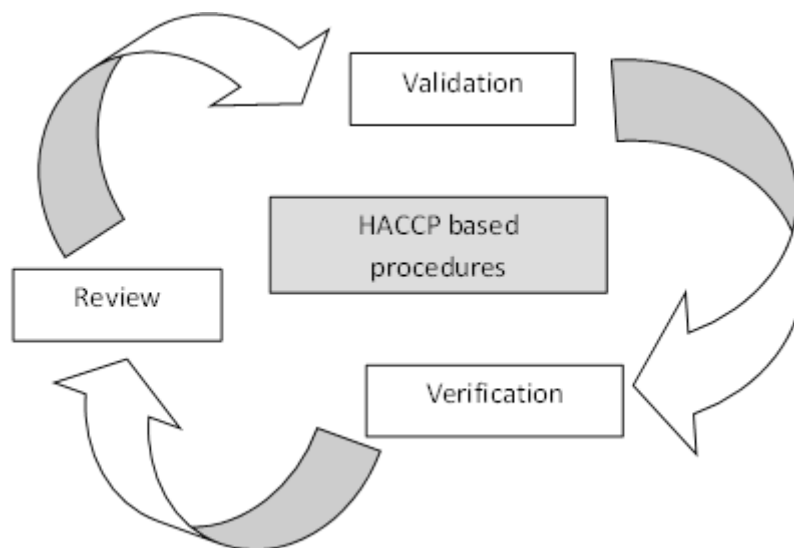
Establishing procedures which shall be carried out regularly to verify that what is written in the HACCP plan is actually being carried out in the work place and is working effectively.

Regulation: (EC) 852/2004 Article 5, 2(f).

2.9.3 Review

When any modification is made in the product process, or any step, the food business operators shall carry out a review of the HACCP based procedure plan(s) to ensure that the plan(s) and associated documentation are up to date.

Regulation: (EC) 852/2004 Article 5, 2.



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2.9.4 Validation / Verification / Review: common issues

The following table contains examples of common issues that the OV could find when auditing HACCP based procedures and guidance on how the OV should make the assessment to determine FBO compliance:

| Common Issues | OV advice / guidance |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Plan not a true reflection of reality | The validation, verification and review procedures described in the plan should reflect those actually carried out. |
| No records of Verification / Validation / Review of the HACCP plan(s) | <p>Plans based on HACCP principles allow for flexibility in the application. The FBO may combine validation (of the HACCP plan), verification and review (of the system); as it may be difficult for the FBO to distinguish between them.</p> <p>Absence of separate validation / verification / review checks does not necessarily mean these have not been carried out.</p> <p>Verification of these procedures may be completed by an internal audit / or external audit(s) carried out by the competent authority or third party auditors.</p> <p>Examples of separate validation, verification and HACCP plan review forms are provided in the https://foodgov.sharepoint.com/operations/Documents/MOC/fsm_diary.pdf#search=food%20safety%20diary which the FBO may choose to use.</p> <p>If the Diary is used the 4-weekly reviews also accomplish verification of the FBOs hygiene controls.</p> |

2.9.5 Microbiology

Microbiological testing is another way of verification of HACCP based procedures.

Microbiological requirements are contained in Regulation (EC) 2073/2005.

Surface microbiological testing is not a legal requirement but the FBO may decide to do so as a way of verification of their cleaning procedures.

Reference: See part 3 section 3 on 'Verification of microbiological criteria' for additional information.

2.10 Principle 7: Documentation

2.10.1 Establish documents and records

Establishing documents and records commensurate with the nature and size of the business to demonstrate the effective application of the measures outlined in subparagraphs (a) to (f):

- a. identifying hazards
- b. identifying CCPs (or CPs)
- c. establishing CL (or LL) at CCPs (or CPs)
- d. establishing and implementing monitoring procedures
- e. establishing corrective actions
- f. establishing verification procedures (including validation and review)

Regulation: (EC) 852/2004 Article 5, 2(g)

2.10.2 Types of documents and records

Three types of paperwork are necessary:

- HACCP plan(s) documenting application of HACCP principles (may be a generic plan – amended to reflect the company procedures including prerequisites that are control measures)
- company's HACCP-based procedures, policies, staff instructions (should include prerequisites as control measures)
- records of monitoring, corrective action, verification and review (the Food Safety Management Diary may be used)

2.10.3 Documentation: common issues

| Common Issues | OV advice / guidance |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Plan not a true reflection of reality | The documentation referred to in the plan of HACCP-based procedures should reflect those actually maintained by the FBO. |
| Disproportionate documentation | <p>Documentation, especially if it is produced by an external adviser, may be disproportionate to the size, type of business and type of food produced. It may be too technical for the FBO or plant staff to understand or follow; it may duplicate existing records or seek to introduce a far more complex system of recording than is appropriate.</p> <p>In these cases it may be appropriate to encourage the FBO to consult with their adviser / consultant and work together to produce a workable, more easily managed HACCP based system, reminding the FBO that the HACCP based system is their control system and they should retain ownership.</p> |

2.10.4 Food safety management diary for meat producers ('The Diary')

The use of the FSA's Food Safety Management Diary for Meat Producers (the 'Diary') is an acceptable method of record keeping.

When using the diary, the FBO or other responsible person should sign the Diary every day to say:

- opening, operational and closing checks have been carried out
- hygienic production has been followed

These are not just a tick in a box, if these have been ticked the workplace must accurately reflect the check carried out for example, areas, equipment are / is clean, knife sterilisers are working correctly.

The daily Diary pages are **not** intended to replace all existing documentation. They will need to be supported by additional record forms and procedures / staff instructions such as:

- individual staff training records
- cleaning schedules
- maintenance plans

The Diary provides examples of such documents that FBOs may adapt for their own use. FBOs may choose to keep such prerequisite records in the Diary binder.

The use of the Diary by FBOs is voluntary. It will not be appropriate in businesses that already have good existing records, and may not be entirely sufficient where, for example, the business is accredited to a Quality Assurance scheme or customers require more extensive documentation.

Reference: An electronic version of the Diary can be found at:

https://foodgov.sharepoint.com/operations/Documents/MOC/fsm_diary.pdf#search=food%20safety%20diary

2.10.5 Exception recording

FBOs may choose to do exception recording, only to make record when a problem or something out of the ordinary is identified and the corrective actions to regain control. This applies particularly to checks that are more or less continuous for example, visual monitoring of each carcass, or where separate checklists are kept for example, cleaning checks.

Examples of exceptional recording:

- record when temperatures exceed the critical / legal limit and the action taken to regain control instead of having to tick / cross a separate list
- instead of making ticks and crosses in a cleaning checklist every day, an alternative could be recording only when cleaning problems are identified including the corrective action
- trimming contamination from a carcass
- recording problems that occur during a process for example, gut spillage during evisceration
- action taken when there are signs of pest infestation
- action taken if refrigeration equipment requires repair
- problems with faulty equipment and what was done to put it right
- staff not adhering to pre-requisite or other procedures and what corrective actions were required for example, supplementary or refresher training, cleaning of a piece of equipment
- knife sterilisers that are not working at 82°C or above and what corrective actions were required for example, repair / renew equipment

FBOs should nevertheless be encouraged to record the results of occasional checks to demonstrate that their procedures are working effectively, for example,

- periodic checks of knife sterilisers
- chiller temperatures

Problems and corrective actions taken do not show a weak HACCP plan but a healthy HACCP plan that works effectively.

2.10.6 Management checks

Management checks are an integral part of FBO food safety management to ensure that prerequisite controls are working effectively.

Four weekly checklists are provided in the Diary to encourage FBOs to undertake a regular review of all aspects of their hygiene controls. There is space to record any persistent problems (which may include concerns raised by OV inspections or audits) or any significant changes that have been made and how they are being dealt with, including any consequences for their HACCP-plans.

Reference: See the topic 2.9 on 'Principle 6: validation, verification and review' in part 2 for additional information.

3. Audit and Enforcement

- 3.1 OV audit of HACCP principles and microbiological testing
- 3.2 Enforcement: HACCP

3.1 OV audit of HACCP principles and microbiological testing

3.1.1 Audit 9/3 form

OV's should use the MS Excel audit report form AUD 9/3 to audit FBO compliance in the application of HACCP based procedures.

Reference: see chapter 9 on 'Forms' for the MS Excel audit report form.

When one establishment has several HACCP based procedures plans, the OV only need to complete one 'HACCP based procedures' section of the form AUD 9/3 which will cover the audit findings for all the HACCP based procedures plans of one establishment.

3.1.2 Confidence in FBO's food safety management systems AUD 9/3

The results of the audit of the FBO compliance in the application of HACCP based procedures is one of the main audit components to be used by the OV to determine the 'Food safety systems based on HACCP principles' (confidence in FBOs food management systems) score in part 2 of the form AUD 9/3.

3.1.3 OV HACCP audit objective

The objective of the OV audit should be to establish whether the FBO can show that they have implemented and are maintaining a system based on HACCP based procedures to a reasonable degree.

Note: HACCP based procedures will not work without sufficient / adequate / appropriate prerequisites (good hygiene practices) being in place (as required by Regulation (EC) 852/2004 in particular).

3.1.4 Technical deficiencies

The plan based on HACCP principles may not be technically correct but this does not make it invalid (or require formal enforcement action) as it may achieve the main purpose of controlling the main hazard for the production of safe food.

Example:

A flow diagram that does not correctly reflect the operations carried out; however, there is no risk for public health as the risks have been correctly identified.

Reference: See sub-topic 3.2.1 on 'OV advisory role' in part 2 for additional information.

3.1.5 OV HACCP audit

The OV should determine through Part 2, (HACCP based procedures section) of the AUD 9/3 the FBO level of compliance as active, broad, weak or poor compliance.

The text at the foot of the page in each section of the AUD 9/3 describes the **active, broad, weak or poor** compliance criteria. The decisions on which criteria is appropriate is a matter of professional judgment of the OV auditor based on the guidance provided in this chapter.

3.1.6 OV microbiological testing audit

The OV should verify that the FBO complies with the microbiological sampling requirements, laid down in (EC) 2073/2005, in accordance with (EC) 882/2004.

OV verification and reporting through part 2 of AUD 9/3 include FBO responsibility for:

- sampling at the required frequency
- following the sampling rules
- interpretation of the sampling results (do these look manufactured or unrealistic?)
- identification of patterns and trends in test results
- identification of failures in the processing techniques that should have been identified and addressed
- corrective action, where necessitated by the results obtained

- a product recall, where necessitated as a result of unsatisfactory food safety criteria results

Reference: For additional information see the MIG.

3.2 Enforcement: HACCP

3.2.1 OV advisory role

Where the OV finds that the FBO has HACCP based procedures but there are deficiencies that do not pose a public health risk, the OV should not serve a formal notice, but advise, educate and encourage rectification of the HACCP based procedures.

The FBO may be directed to the MIG for guidance, and in particular the advice on HACCP training, as well as to the Meat Plant HACCP Manual and the Food Safety Management Diary sample documents.

Reference: For guidance on HACCP implementation refer to <http://www.food.gov.uk/business-industry/meat/haccpmeatplants>

The electronic version of the Diary can be found at

https://foodgov.sharepoint.com/operations/Documents/MOC/fsm_diary.pdf#search=food%20safety%20diary

The OV advisory role does not extend to personally writing any part of the FBOs food safety system for example, HACCP plans and monitoring documentation.

3.2.2 Objective evidence

It is essential to gather evidence of legal contraventions for example,

- the slaughter for human consumption of animals whose identity cannot be reasonably ascertained
- carcasses presented with faecal contamination at post mortem inspection, when these are related to the inadequacy (or non-existence) of the FBOs HACCP-based food safety management procedures

3.2.3 Notification to the FBO of deficiencies

If after verbal advice and an advisory letter the FBO has made:

- no effort to implement a food safety management system based on HACCP based procedures, or
- negligible effort to implement a food safety management system based on HACCP based procedures, or
- once implemented, the FBO has failed to maintain a system based on HACCP based procedures

The OV is to serve a Hygiene Improvement Notice (HIN) for each of the HACCP principles that are not being complied with.

Regulation: (EC) 852/2004, Chapter II, Article 5 and (EC) 853/2004, Annex II, Section II.

3.2.4 Plant functions

Separate HIN's are to be served on each of the establishment's approved functions, such as slaughtering and cutting. Separate notices avoid:

- having to withdraw an entire notice that has only be partially complied with
- the suspension of entire notices because of appeals over one issue
- the service of more notices on those areas still outstanding

3.2.5 Time scales for compliance with formal notices

The timescale for compliance with the HIN will depend upon the size of the establishment, the nature and complexity of the operations and the history of compliance of the FBO. The OV is responsible for making an assessment of the specific circumstances for the plant to provide a reasonable timescale in line with the enforcement concordat and risk based procedures (it is proportionate).

3.2.6 Failure to comply with the notice

If the FBO fails to comply with the HIN(s), the OV should recommend prosecution by completing the Prosecution Report (ENF 11/6).

Reference: See chapter 9 on 'Forms'.

The OV must keep a record of the FBOs progress on HACCP implementation made after a recommendation for prosecution has been made. This will help identify actions that should have been taken earlier and will help to counter any mitigating factors that the FBO puts forward if the case goes to court.

3.2.7 OV records of FBO compliance

The OV must keep records in the plant daybook and the audit report form (AUD 9/3) of the advice given to the FBO.