

Performing the Assessment - HACCP

- Use Directive 5000.1 for policy guidance
- Answer the questions in the FSA Tool appropriate for the processing category
- Assess design and implementation

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HACCP-Hazard Analysis

- 9 CFR 417.2(a)(1): Each establishment must have a hazard analysis conducted to determine the food safety hazards reasonably likely to occur in the production process and identify preventive measures the plant can apply to control those hazards.
- Consider all potential biological, chemical, and physical food safety hazards, and determine the food safety hazards reasonably likely to occur in its process.
- HA provides the basis for an establishment's food safety system.



Hazard Analysis - 417.2(a)(1)

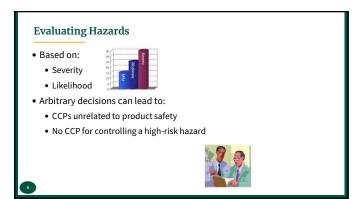
- HA involves: Hazard identification & evaluation.
- An adequate HA ensures the level of risk to the consumer is acceptable.
- The HA must be supported according to 417.5(a)(1)

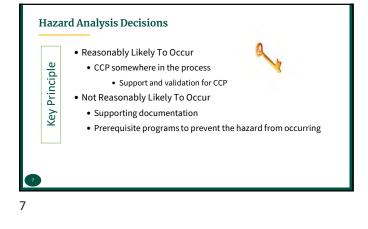


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Hazard Identification

- Meat and Poultry Hazards and Controls Guide
 https://www.fsis.usda.gov/guidelines/2018-0005
- FSIS Microbiological Hazards Guide
 https://www.fsis.usda.gov/node/2253
- Appendices C & D of the HACCP Final Rule FR Notice
 https://www.fsis.usda.gov/sites/default/files/media_file/2020-08/93-016F
 0.pdf
- FSIS HACCP Guidance
 - https://www.fsis.usda.gov/inspection/compliance-guidance/haccp

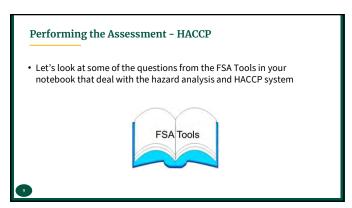


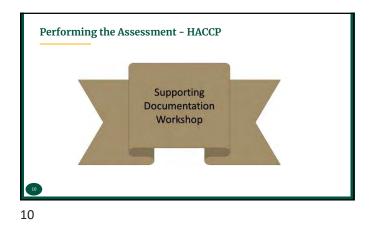


Hazard Analysis

- If HA conducted incorrectly and does not identify significant hazards HACCP plan will be ineffective.
- Noncompliance with 417.2(a) because of an inadequate hazard analysis can result in an inadequate system.
- Begin review of the HACCP system-Verify the design of the hazard analysis.
- Assess whether appropriate hazards have been addressed.
- Use the questions from the Hazard Analysis and HACCP system section of each tool.

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Performing the Assessment -Prerequisite Programs (PRP)

- PRPs are often used to support decisions in hazard analysis
- Decisions often involve these programs preventing a hazard from being reasonably likely to occur (RLTO) or significant.
- Example: Purchase specifications for incoming materials.Provide basic environmental and operating conditions
- necessary for the production of safe & wholesome food.
- PRPs are the foundation for an effective HACCP system.
- PRPs frequently function facility wide.



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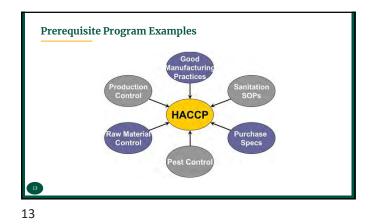
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Performing the Assessment -Prerequisite Programs (PRP)

• PRPs may have unique names that do not incorporate the actual term "prerequisite program"

Examples

- Purchase Specification Program
- Allergen Control Program
- Temperature Control Program





Performing the Assessment - PRPs

- Plant may determine a hazard is not significant because of ongoing execution of a PRP.
- The EIAO will look closely at programs used in hazard analysis decisions
- Determine if the design and implementation of the programs actually support the decision



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Performing the Assessment -Prerequisite Programs (PRP)

- PRPs cannot be used to directly control a hazard.
- Non-conformance with a PRP may not create a food safety concern or call for product action.
- Non-conformance with the PRP may call into question support for decisions in the HA.

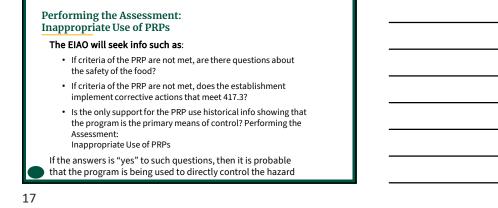
Prerequisite vs. CCP?

Prerequisite Program

- Cannot be used to directly control a hazard.
- May prevent a hazard from being likely to occur.
- Deviations from program may not create direct food safety concerns; BUT may call into question hazard

analysis decisions.

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Critical Control Point

• Directly control specific

Prevents, eliminates, or

reduces a likely to occur

• Deviations from controls in a

generally require action on affected product.

HACCP plan cause food

safety concerns and

hazards.

hazard.

Performing the Assessment: Inappropriate Use of PRPs

The EIAO will discuss such finding with the establishment and inform them that they need to:

 Reassess its HACCP plan to reconsider use of the programs and properly address the hazard.

Failure to reassess and properly use the programs may result in the issuance of a NOIE

PR Program → Control

Performing the Assessment Prerequisite Programs

The EIAO will review:



- Features of the written PRP
 - Supporting documents
 - Program data over a period of time
 - Observe employees implementing the PRP

The standard of performance for prerequisite programs records is different from the expectations of HACCP records

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Performing the Assessment Prerequisite Programs

- A single instance of nonconformance may not represent noncompliance, if decisions in the HA are still supported.
- PRP Records must continue to support the not reasonably likely to occur hazard analysis decision.
- If EIAO determines the prerequisite program is ineffective or not being executed as designed and there are no food safety concerns.
- The establishment will need to reassess the hazard analysis to determine whether there is continued support for the decisions.

Reassess

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Evaluating Sampling that is part of a Prerequisite Program FSIS website resources to help EIAOs evaluate sampling and testing done by an establishment: Foodborne Pathogen Test Kits Validated by Independent Organizations

- https://www.fsis.usda.gov/guidelines/2019-0008
- FSIS Guidance for Evaluating Test Kit Performance
 https://www.fsis.usda.gov/guidelines/2010-0004
- Establishment Guidance for Selecting a Lab
- https://www.fsis.usda.gov/guidelines/2013-0009
 AskFSIS



Prerequisite Programs - Example

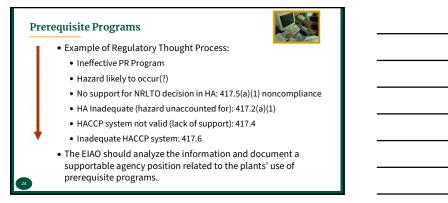
- Raw ground beef operation has a PR program based on purchase specifications
- The EIAO will review the records from the program to verify that it supports the decision made in the hazard analysis that E. coli O157:H7 is not likely to occur.



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Prerequisite Programs - Example

- Establishment producing post-lethality exposed RTE products has product or environmental testing in a PR program
 - The EIAO will review the program, results, and decision documents to verify it is science based.
 - Assess the total system to verify design of the testing and implementation effectively addresses Listeria.





Performing the Assessment - HACCP

- Monitoring: Assess the design and frequency of monitoring procedures.
- Review the HACCP plan, supporting documentation and at least 60 days of records
- Now turn to the HACCP Tools portion of your notebook and look at some questions dealing with monitoring



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Performing the Assessment - HACCP

- Verification: Review the HACCP plan and at least 60 days of verification records
 - Determine whether verification procedures comply with requirements
 - Look at the design and implementation of the procedures
- Now turn to the HACCP tools portion of your notebook and look at some questions dealing with verification.

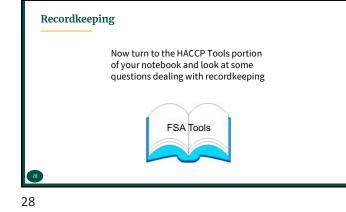


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Performing the Assessment - HACCP

- Recordkeeping: From the 60 days of records, summarize what happened related to safe and wholesome product production.
- Review supporting documentation
 - Randomly select 13 production days from the 60 days
 - Assess whether the HACCP System design is implemented and whether it meets regulatory requirements.
 - If an establishment has operated less than 13 days in last 60 days, review minimum 13 days.

Note: Only review more records if larger food safety issue is observed.



Corrective Actions

Corrective Actions (CA): Review the HACCP plan and at least 60 days of records.

- Assess design of CA and determine if they meet 417.3 requirements.
- If no CA taken in that timeframe attempt to find the last instance where CA was taken.
 Answer questions in the tools
- Now turn to the HACCP Tools portion of your notebook and look at some questions dealing with corrective actions.



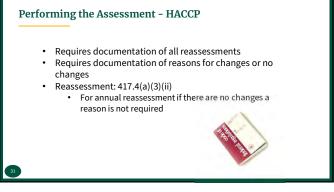
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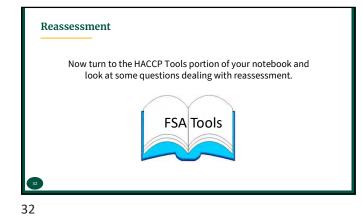
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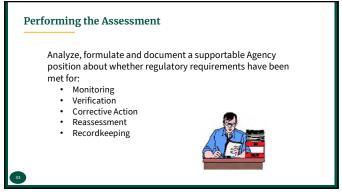
Performing the Assessment - HACCP

Reassessment:

- Review at least 60 days of records
- Determine if reassessment should have occurred
- Review reassessment decisions and any actions taken as a result
- Verify annual requirement is met
- Verify reassessment documentation





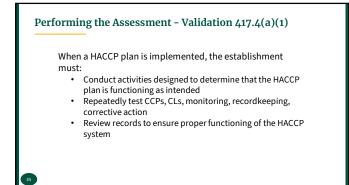


Performing the Assessment - Validation

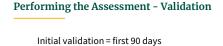
Now let's review the validation requirements and key points to look for in the assessment.



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• 9CFR 304.3(b) and 381.22(b)

Validation has 2 parts:

- Scientific or technical support for the HACCP system
- In-plant demonstration proving the HACCP system can
 - perform as expected

Part 1 Scientific or Technical Support

- Historical data
- Scientific journal articles
- Plant generated data
- Other regulatory requirements
- Pathogen modeling program
- Processing authority
- Agency Issuances

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Historical Data as Support

- Records must be available
- Verify historical records reflect current establishment operations



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Scientific Documents as Support

- Conditions in the study are representative of those in the establishment's process.
- Document describes how and why the data support the conclusion.
- Scientific Support Characteristics:
 - Identify hazard and pathogen
 - Level of reduction
 - Identify critical parameters
 - Sufficient relationship to hazard
 - Implemented in the establishment as documented
 - Otherwise additional research data needed

Plant Generated Data as Support

- Challenge studies
- Pathogen modeling programs
- Microbiological test results
 - Frequency of sampling
 - Sample selection
 - Sampling method
 - Sample handling
 - Analytical method

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Other Regulations as Support

- May use regulations or other agency issuances to support a NRLTO decision
- Must follow **or** have additional support



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Part 2 Initial In-Plant Validation

- In-plant observations
- Measurements
- Microbiological test results
- Other information demonstrating control measures can be implemented to achieve the intended food safety objective



Initial In-Plant Validation Characteristics

- Based on critical parameters identified in scientific support
- Intensified data collection during first 90 days "repeatedly testing" NOT recreating entire scientific support.
- EIAO may see microbial before/after testing used to demonstrate log reductions documented in scientific support
 - Indicators and pathogen of concern
 - Not required by regulation
 - No deliberate introduction of pathogens allowed

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In-plant Validation Data Uses

- "Repeatedly testing" data often used as supporting documentation for frequencies.
- Establish a baseline of performance.
- Data can show which critical parameters are most important and give the first signs the system is "out of control".
- Scientific support documentation and 90-day initial validation data become records under 9 CFR 417.5(a)(1) supporting documentation

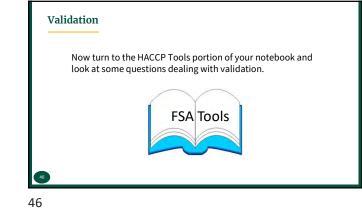


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Validation & Validation Updates

- 9 CFR 417.4(a)(1): Includes review of HACCP system records.
- 9 CFR 417.1 HACCP System Defined: The HACCP plan in operation including the HACCP plan itself.
- Entire system must be validated- Including any interventions or processes used to support decisions in the hazard analysis.
- FR Docket No. FSIS-2009-0019
- Clarification of Requirements for Validation
- Compliance Guideline updated April 2015









Methods Group Exercise II

- Look at the Hazard Analysis for pepperoni
- Discuss any concerns
- Report out

