



Sanitation Standard Operating Procedures (SSOPs)



Chapter 3
HACCP A Systematic Approach to Food Safety

OFFICE OF THE TEXAS STATE CHEMIST
Texas Feed and Fertilizer Control Service • Agriculture Analytical Service



Introduction

- ❑ Sanitation is one for the essential prerequisite programs for the successful implementation and maintenance of a HACCP program.
- ❑ Good sanitation enhances product quality and shelf-life, reduces maintenance costs, and contributes to operational efficiencies.
- ❑ Grain handling standards apply to feed manufacturing and involve employee safety (29 CFR 1910.272 i) and the Current Good Manufacturing Practices (21 CFR 210, 225, 226) include sanitation elements including building and grounds, equipment, and equipment cleanout procedures.

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Sanitation and Standard Operating Procedures

Sanitation is not limited to cleaning equipment, it also includes personnel practices, facilities, equipment design and operation, pest control, and warehousing.

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SSOPs: Food Safety Modernization Act

(o) Definitions

Preventive Controls definition: The term “preventive controls” means those risk-based, reasonably appropriate procedures, practices, and processes that a person knowledgeable about the safe manufacturing, processing, packing, or holding of food would employ to significantly minimize or prevent the hazards identified under the hazard analysis ...

- (A) Sanitation procedures for food contact surfaces and utensils and food-contact surfaces of equipment.
- (B) Supervisor, manager, and employee hygiene training.


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FSMA Rule for Animal Feed

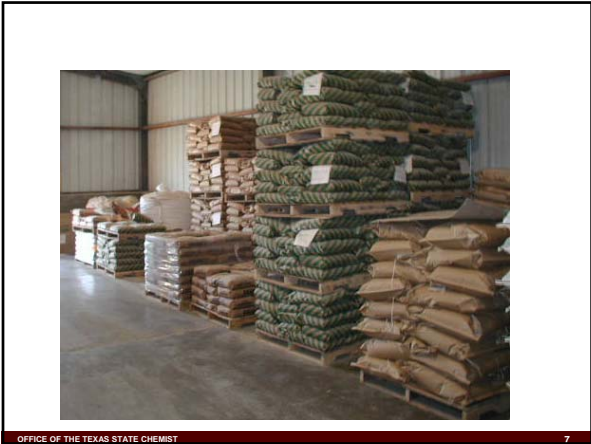
- ❑ **Subpart B-Current Good Manufacturing Practices**
 - Sanitary operations
 - Buildings, fixtures, other physical facilities, cleaning compounds and sanitizing agents, toxic materials, toxic cleaning compounds, food-contact surfaces, utensils, food contact surfaces of equipment, non-animal food-contact surfaces, portable equipment
 - Sanitary facilities and controls
 - Water supply, cross-connections, sewage, toilets, hand-washing, rubbish
 - Equipment and utensils
 - All plant equipment and utensils, design, construction and use of equipment and utensils, installation, contact surfaces, seams, holding, conveying, freezers and cold storage, instruments, compressed air
 - Process control
 - Overall sanitation, measures taken to destroy or prevent microbes

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Employee sanitary practices



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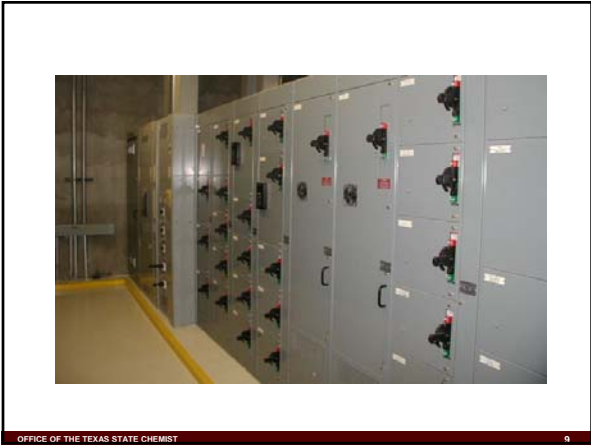
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7



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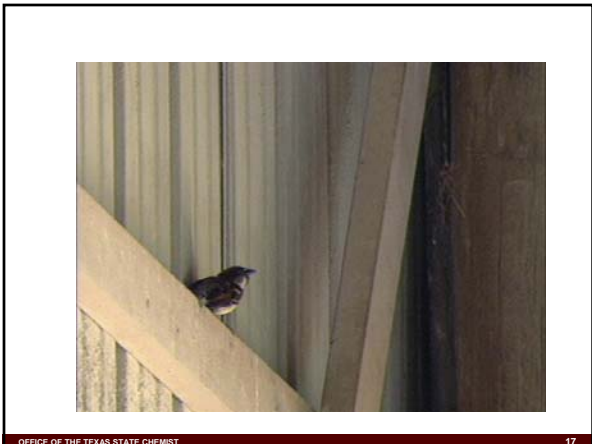


Presence of Salmonella in feed manufacturing facilities

| Source | Positive | Negative | Details |
|-----------|----------|----------|-----------------|
| Surface | 1 | 18 | Load out |
| Conveyors | 1 | 9 | Bucket elevator |
| Cooler | 0 | 6 | |
| Other | 0 | 5 | |

Results from 8 feed mills the lateral flow enzyme immuno-assay (EIA, Neogen Reveal)

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Results from insect population survey

Commercial food- and pheromone-baited pitfall traps and pheromone-baited sticky traps were used during 2003 to survey stored-product insect adults in eight participating feed mills in the Midwestern United States. Across the eight feed mills, 27 species of beetles (Coleoptera) and three species of moths (Lepidoptera) were captured in commercial traps.



Summary

- Sanitation requirements exist for the feed industry
- A sanitation program will control many potential biological, chemical and physical hazards
- Sanitation is an essential prerequisite program
- Written SSOPs should include at least:
 - Detailed description
 - Corrective actions
 - Daily records

END

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