



FSS

DynamicIPM

by:  FSS

Fumigation Service and Supply, Inc.

Food Industry IPM, FUMIGATION and DECONTAMINATION Seminar Presented By: @

Chicago, IL on 12/10/19 and Atlanta, GA on 12/12/19

7:00 - 7:45 Registration Open - Coffee, Fruit and Donuts Provided 7:45 - 8:00

Introduction

8:00 - 8:45 Understanding Rodent Pressure - John Murphy (Liphatech)
*Species presenting most risk Rodent capabilities
overview Rodent risk prevention tactics*

8:45 - 9:30 Microbial Decontamination using Chlorine Dioxide - Jeff Waggoner, ACE (FSS, INC.)
*Practical application of CD Gas Advantages and
Limitations Cost, Performance and Prevention*

9:30 - 10:15 Break - Water, Coffee, Pop and Snack Provided

10:15 - 11:00 Dynamic IPM - John Moore, MSc (FSS, INC.)
*The problems with static programs Annual assessment
purpose and usefulness Data and what to do with it
Conducive conditions and accountability*

**11:00 - 11:45 Remote Monitoring Technology - Tom Mueller (Insects Limited, Inc.) and Michael
Zimmerman (Bayer Crop Science)**
*Benefits of remote systems
The impact of AI learning and IPM systems
The inevitable culture change*

11:45 - 12:00 AM Session Round Table Review with Attendee Q/A Discussion

12:00 - 1:00 Lunch - Provided

**1:00 - 1:45 Food Defense - Rod Wheeler (CEO/Founder, Food Defense, Law Enforcement and
Homeland Security)**
*The details of the general term "Food Defense"
Defense as an offensive move in food safety and IPM*

1:45 - 2:30 Structural Fumigation - Josh Wilhelm, ACE (FSS, INC)
*What fumigation can do for your IPM program Overview of
structural fumigations for rodents and insects Efficacy,
monitoring and safety*

- 2:30 - 3:15** **Commodity Fumigation and Protectants - Pete Mueller (FSS, INC.)**
Bulk commodity treatment options
Residual protectant applications
- 3:15 - 3:30** **Break - Water, Coffee, Pop and Snack Provided**
- 3:30 - 4:15** **SQF and GFSI Audit Ins and Outs - Jim White (SQF Institute and Auditor of the Year Finalist)**
Exploring the positive effects on your food safety program
- 4:15 - 4:45** **Insect Light Trap Monitoring - Don Kaufman, Patrick Callahan (Pelsis)**
ILTs are not insect control devices
Fly control begins on the exterior
Trending analysis and developing an effective program
- 4:45 - 5:00** **PM Session Round Table Review with Attendee Q/A Discussion**
- 5:00** **Recertification Credits, Certificate of Participation and Adjournment**



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SERVICES

- Fumigation
- Integrated Pest Management
- Decontamination
- Fogging



PRODUCTS

- Fumigants
- Protectants
- Safety Equipment
- PC Supplies



EDUCATION

- Technical Support
- Insect ID
- Recertification



Date:

Thank you for your continued interest in our services. Fumigation Service & Supply, Inc. has been specializing in providing fumigation and pest management services tailored to the food, grain, seed, milling, and pharmaceutical industries since 1981. As stored product pest management experts, we are familiar with the insects that affect these industries and the environments that support them. We combine this expertise with active partnership, education, and diligence to achieve results.

This document outlines a DynamicIPM Food safety program designed specifically for your needs that will provide the path to true continual improvement for food safety, risk management, consumer safety and brand protection because it identifies need and risk early, adjusts to meet those needs in a way that current static IPM programs cannot. The needs, risks, and operations of your facility can change rapidly, often without you knowing. This Dynamic IPM approach ensures your IPM program is adapting and evolving with you.

GOALS

The goals of this program are to assess, identify, monitor, and manage pest related risks to food safety; to establish active communication and partnership in preventing and eliminating conditions that promote or sustain those risks; and to do so in compliance with government, internal, and third party pest management and food safety standards and requirements.

METHODS

We utilize assessments and detailed inspections to identify areas that represent risk, potential risk, and areas that have historically presented food safety risks. Areas are identified and labeled according to level of risk. Strategically placed monitoring and control devices as well as detailed inspections are used in these areas to continually assess these risks and mitigate them as much as possible by communicating findings with the facility contact and engaging in the effort. Simultaneously, we will be using Dynamic monitoring system detailed below to constantly reassess the facility to identify other potential risks areas or pest activity that may be hidden, or new, due to changes in conditions or operations. If new areas of potential risk are identified, the areas of focus for regular service are adjusted to prioritize IPM resources to the recent or most eminent risk.

SCOPE OF SERVICE

This program encompasses the _____ facility located at the address shown above. The following is an outline of monitoring service frequencies with a brief description of each. Detailed device service procedures are outlined in a separate SOP document found in the Program Manual.

Rodent Control

Multiple Catch Traps: Monitored 24/7, physically verified for placement and function 1x month

- Proper function is ensured each service
- Damaged/missing traps are replaced each visit; FSS, Inc. will assist in locating missing traps
- Rodents and related debris in traps are removed from the site
- Traps are brushed clean of pest evidence each service
- Activity is documented via scanning software
- Traps are numbered and mapped; maps are updated as needed and annually

Exterior Bait Stations: Serviced Monthly

- Stations are brushed clean each service; tamper resistance is verified
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- Rodenticide bait is changed monthly and when feeding or deterioration is evident; old rodenticide is removed from the site
- Damaged/missing stations are replaced each visit; if replacements are not immediately available, rodenticides are removed from damaged stations. FSS, Inc. will assist with efforts to locate displaced stations
- Activity and pesticide usage are documented via scanning software
- Stations are numbered and mapped; maps are updated as needed and annually

Insect Monitoring and Control

Pheromone Traps: MONITORED 24/7 , Physically verified for placement and function 1x month.

- Traps are inspected, and captures removed each service
- Trap devices are replaced as needed
- Pheromone lures are replaced quarterly; this is documented on both the device and the Service Report
- Traps are numbered and mapped; maps are updated as needed and annually

Insect Light Traps: Serviced 2x month

- Traps are inspected for function and cleaned each service; burned out fluorescent tubes and starters are replaced as needed
- Glue boards are replaced each service (where used)
- Shatter proof fluorescent tubes are replaced annually each Spring, typically in late March/early April; replacement is documented on each device and on the Service Report
- Insect type/category and count are recorded via scanning software
- Traps are numbered and mapped; maps are updated as needed and annually

Inspection

Inspections and control actions will be primarily focused on the areas predetermined and defined as moderate to high risk. These inspections will be very detailed involving all of the elements within including product, equipment, structure, and sanitation in the area that have the potential to affect food safety. All inspections and actionable items from the inspections will be documented and tracked with all pest trending activity and will be available to you on the customer portal allowing you to see the entire history of an issue from identification to resolution.

Dynamic Monitoring

Dynamic Monitoring utilizes a small number of traps and other devices such as electronic rodent monitors spaced in underutilized, difficult to reach locations such as drop ceilings, or areas not currently part of the regular service. This allows us to detect the presence of hidden pest activity that may put the facility at risk. We get immediate notification of activity allowing us and you to respond quickly to pest activity before corrective actions become costly. These dynamic monitors are placed in different locations every other service and provide a higher level of verification and confidence that your IPM program is effective. All data is collected and becomes part of your overall trending information which will be reviewed with you on a regular basis.

Pesticide Application

When monitoring and inspection indicate the presence or likelihood of insect activity, options for corrective actions will be discussed with the plant contact, including the use of pesticides. All pesticides applied on site will be approved in writing via the **Approved Pesticide List**, found elsewhere in the Program Manual.

No pesticides, pesticide related wastes, or application equipment will be stored or disposed of on site.

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Shared Responsibilities

FSS, Inc. is responsible for the performance of all services described in this document. _____ is responsible for appointing an in-house, technically responsible contact person who will meet with us each service to discuss findings, implement corrective actions, approve treatments, provide pertinent information regarding the site and processes, and partner with us to promote the success of the program.

Changes to the Program

Program revisions may be made and documented as part of the Annual Assessment/Program Review process. If situations arise that require more immediate action, changes to the Scope of Service will be discussed prior to service and approved **in writing** by the customer contact person, along with any associated additional costs. This documentation will be kept in the Program Manual.

Minor adjustments to the number and placement of devices or placement of temporary devices will be reflected on the corresponding Service Inspection Report and the Device Diagram will be updated.

PROGRAM MANAGEMENT

Employee Sighting Program

Employee Sighting Program booklets will be made available. You may also report pest sightings through the Customer Connect Portal.. FSS will review entries during each visit and document corrective actions. Sightings will be entered into our electronic data collection system weekly to be included in pest trending.

Device Diagram

FSS, Inc. will maintain an up-to-date diagram of the facility with the location of all pest management devices and listing the total number of each type of device present. The diagram will be revised as needed and reviewed annually. Each permanent pest control device will be labeled with a barcode and a unique identifier that coincides with the device diagram.

Because our Dynamic IPM program is responsive to changing needs and pest risks in a facility, sometimes this requires adding, removing, and relocate devices. Because of this, device numbering may not be strictly sequential. Our electronic barcoding system and software allow us to easily keep track of device totals, locations and history, and to trend activity by plant area.

Trending Review

Activity in graph form and corrective action data will be presented and discussed quarterly to analyze and respond to activity and sighting trends. Service history and trending information is also available in real-time via our Customer Portal, accessible at <https://myreports.fumigationzone.com>.

Assessment

A Site Assessment will be conducted annually and as dictated by risk and history by qualified personnel to evaluate pest activity and risk, program effectiveness, and provide gap analysis.

Quality Control

The Quality Assurance team or corporate staff will perform internal audits of our program frequently but never less than monthly to ensure that the Dynamic IPM program is keeping pace with the changing needs and risks of your facility. Additional charges may apply in some situations.

PROGRAM MANUAL

The required program manual or logbook and all supporting documentation is digitally stored and maintained through our Customer Connect Portal. Here, you will find all of the information required for third party audits, trend review, and service information as well as all documented history for your account.

The following documents are included and are available on the customer portal.

Emergency Contact Procedure	Device Maps
FSS Company Introduction	Site Assessment
Service Reports, Including Pesticide Usage Details	Certificate of Insurance
Quarterly Trending Reports	Business License and Technician Certifications
Internal Audit Log	GMP Training Document
Approved Pesticide List/Special Approvals	SOPs for Device Service
Scope of Service	Pesticide Labels/SDS

EMERGENCY CONTACT PROCEDURE

A pest emergency is any pest related situation that poses an immediate threat to health and /or food safety. Should such an event arise, the appropriate designated facility representative should contact FSS immediately.

Site Contact:

Manager

FSS Contacts:

FSS Area Manager

FSS Account Manager

FSS Service Manager

FSS Safety Manager

FSS IPM Director

FSS General Manager

FSS Corporate Office

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Food Safety Risk Management

FSS offers a third party verifications and risk assessments, audit readiness training, product inspection, and training services for QA and Food Safety managers.

Exterior Perimeter Treatments/ Fly Control

Exterior perimeter treatments are an essential element for a successful IPM program. Methods and materials used vary significantly for each treatment based upon need, season, predictable need, and exterior environmental conditions. There will be a minimum of 3 exterior treatments scheduled in advance based upon the predictability of certain pest pressures. If pest pressure or weather determine a different schedule, your treatment schedule will be adjusted for maximum benefit. This treatment will be billed separately from your service at a rate of approximately \$.70 per lineal foot of actual treatment area.

Preventative Silo Cleaning

Confined Space Entry trained and equipped, FSS can offer safe and effective bin cleanout services. This service can extend the effects of fumigation by eliminating buildup of materials that may prevent good fumigant penetration where efficacy can be compromised.

Microbial Decontamination Services

Foodborne illnesses outbreaks are preventable. We utilize chlorine dioxide gas to gain 99.9999% control of harmful spores that may lead to product recalls, damaging news coverage and loss of revenue. Ask your Regional Manager about this specialized service and how treating bins, silos, equipment or entire structures can help you gain peace of mind and reset your microbial counts.

Fumigation and Space Treatments

FSS, Inc. provides a full range of fumigation and space treatment services, including truck trailers, silos, railcars, processing equipment, and entire facilities.

Weed Control

Weed control can be quoted on request. FSS, INC. may subcontract this work, or refer the customer to an alternate vendor.

Bird Control/Prevention

FSS can provide bird inspection, exclusion, and removal services. Please inquire with your account manager for an estimate.

Nuisance Wildlife

Most wildlife birds and animals are federally protected, and special licenses/permits are required to address their removal. Depending on the situation, FSS, INC. may subcontract this work, or refer the customer to an alternate vendor.

Training and Technical Support

We provide seminars, a quarterly newsletter, and personalized onsite training. We believe the more information our customers have the better our programs become. We can provide training on a wide variety of topics including basic insect identification and biology, pest related food safety, railcar aeration, and more.



COST OF SERVICE

Service Cost

Fumigation Service & Supply, Inc. agrees to provide the pest control services as described herein at a rate of \$Cost per Service. Billing is per service unless other arrangements are agreed upon. This cost is based on the program and devices currently in place and does include treatments or remediation for other pests such as ants and roaches that fall within a regular service visit.

Additional Costs

FSS will charge per item for materials damaged or missing such as bait stations and rodent devices. FSS will also charge for services not covered under this agreement such as fly control, after hours service, non covered pests on a time and materials basis at \$150.00 per hour rate.

Service calls/visits that are not part of the scheduled service or after hours will be billed separately on a time and materials basis at a \$150.00 per hour rate. Time calculated for billing will include travel time.

Large Scale Services Costs

Bids can be submitted in advance on request for large scale treatments such as fumigation, space treatment, perimeter treatment, and bird exclusion.

The above prices do not reflect any applicable taxes.

TERM AND APPROVAL

This agreement shall be in effect from the date signed below through 1-1-21, unless otherwise agreed in writing by both parties. It shall continue in effect for all intents and purposes after the specified date for a period of not more than 60 days, or until superseded.

Billing is per service and Terms are Net 30 unless other arrangements are agreed upon. A 7.5% late fee will be applied monthly to any balances that are 30 days or more past due. FSS, Inc. will charge a 3% processing fee for credit card payments.

_____ Representative

_____ Date

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Signed FSS Representative

Date