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(01/2002)
The AIB Standards

The *AIB Consolidated Standards for Food Safety* were published as a tool to permit food processors to evaluate the food safety risks within their operations and to determine levels of compliance with the criteria in the Standards. These Standards contain the criteria and rating method used to assign a numerical score (rating) to the plant. These criteria are derived from the following good management principles: The U.S. Federal Food Drug and Cosmetic Act (1938); Good Manufacturing Practices, CFR Title 21, Part 110 (1986); U.S. Military Sanitary Standards; the U.S. Federal Insecticide, Fungicide, and Rodenticide Act; EC Directive 93/43/EEC; UK Food Safety (General Food Hygiene) Regulations 1995 (1995/1763); The UK Food Safety (Temperature Control) Regulations 1995; and Codex Alimentarius Commission Food Hygiene - Basic Texts (1999).

This document and scoring procedure should be used by the plant management team to perform a self-assessment of the plant’s compliance to the AIB Standards. The rating protocol should be used to assign a numerical score to the plant inspection and evaluate the overall effectiveness of the food safety programs.

**Section I**

**Adequacy of Food Safety Program**

This section outlines management’s responsibility for formally documented programs necessary to establish and maintain an effective food safety program. These programs are detailed in sections II through V of this document. Successfully implementing these programs will reduce the potential for food contamination in the plant. The effectiveness of the food safety program is evaluated by the self-inspection and corrective action process which documents the maintenance and continuous improvement of the required programs for food safety.
Section II
Pest Control

This section describes elements of a formalized, written food adulteration prevention program required to conform with these consolidated standards. It defines several types of programs, lists required records, and gives specific procedures to follow to prevent food adulteration by pests, pest evidence, or pesticides.

Section III
Operational Methods and Personnel Practices

This section lists programs and techniques to protect food from adulteration during storage and manufacturing. It addresses receiving and storing raw materials; transferring and handling ingredients; operational appearance; and operational, delivery, and personnel practices.

Section IV
Maintenance for Food Safety

This section requires the plant to have an established and implemented preventive maintenance program; documented maintenance work order system; and sanitary/hygienic design criteria for the building, equipment, and utensils to prevent food contamination from these sources.

Section V
Cleaning Practices

This section contains requirements for scheduled cleaning of the building and grounds, equipment, utensils, and maintenance cleaning associated with electrical and mechanical systems.
Confidentiality

All information obtained by AIB International during the establishment/plant inspection will be treated as confidential between AIB International and the client. The inspection report will be provided to the client under an AIB assigned code number. Except as required by law, AIB International will not release any information or report of the inspection to a third party without written authorization from the client.

Using the Standards for Self-Inspection:
The Inspection Team

The plant management shall inspect all of the facility at least once each month. A formal report shall be made of the inspection observations. The inspection team should consist of the Plant Manager and a representative of each of the following departments: production, maintenance, quality control, sanitation/hygiene, receiving, and warehousing. The purpose of the team concept is to have team members with different levels of education, experience, and accountability working together to focus on food safety concerns during the audit. This will have several benefits:

1. The team is a highly visible representation of management’s commitment to food safety issues. It stresses that this activity is important and an integral function of the plant’s responsibility to produce a safe product.

2. The team helps cross-train members to look for and react to food safety issues. It also helps the team focus on how the management system, plant policy, and employee training can and do affect the food safety system.
Types of Self-Inspection

There are two types of self-inspection. The first type is the daily inspection conducted by each supervisor in his or her area of responsibility, such as a production line or other plant area for which the supervisor is responsible. The Plant Sanitarian/Hygiene Manager, Quality Assurance Manager/Supervisor, and other designated personnel should inspect the entire plant daily for hazards before start-up and during manufacturing. A short list of defects noted should be recorded for immediate follow-up, as required. The second type should be the periodic formal plant inspection by the multidisciplinary management team, supervisors, and employees in their areas of responsibility.

The inspection time should be short and focused for maximum benefit. An inspection that is two hours long and is highly focused on one area is preferable to a more time-consuming inspection that interferes with team members’ other duties or causes team members to lose focus or interest. As previously noted, the team should include supervisors in their areas of responsibility. The inspection should also be used to train employees in good procedures and practices for food safety. It must be documented and list noted discrepancies. For each discrepancy, provide the course of corrective action required, person(s) responsible, estimated date of correction, and actual completion date. Upper level management is responsible for reviewing and providing resources to correct inspection findings that pose a program failure or food safety risk in the marketplace.

Conducting the Self-Inspection

The inspection team should conduct the plant self-inspection at least once each month. If the plant is small or has one production line or system, the entire plant should be completed during the inspection. If the plant is large, it may be necessary to divide the plant into 2, 3, or 4 inspection zones.
One area should be inspected each week, meaning the entire plant will be inspected by the end of a single 2-, 3-, or 4-week cycle. If the plant is divided into sections, the plant areas should be defined and inspected together in a logical way. Examples are: bulk storage systems; raw materials warehouse; processing (further divided by product line, e.g. line #1, line #2, etc.); packaging; finished product storage; support areas (maintenance, locker and toilet rooms, etc.); outside grounds and roof; or other divisions as dictated by area of management responsibility. This will help to associate food safety hazards found during the inspection with the inspected area and responsible personnel.

**Inspection Preparation**

Members of the self-inspection team should prepare in advance for the inspection by thoroughly reviewing the requirements in these standards and by examining previous inspection reports. This activity should not be interrupted. Team members should focus exclusively on the inspection throughout its duration. If the plant is large, the inspection should focus on selected areas and these areas should be thoroughly inspected. It is important that the team conduct a thorough inspection, using the criteria in the AIB Standards.

Team members should be attired in company uniform with all the proper inspection equipment including flashlight, spatula, tools to disassemble equipment, tape recorder or paper to take notes, and safety equipment. They should follow all applicable plant policies.

**Inspection Notes**

One person should be assigned to take inspection notes for the team. This person is designated throughout the rest of this document as the scribe. The inspection should be systematic. Begin in one area such as receiving, then move through the plant area or production line in a logical sequence.
The notes should be written so they relate directly to the area being inspected. This will allow the management team to use them to focus on those plant areas or practices that pose the greatest food safety risks.

It is important that the scribe write down all observations made by the team. The team should discuss the observations so all members understand the hazard observed, correction needed, and what changes can be made to the management system to prevent recurrence of the problem or hazard. Each written observation should be coded with the appropriate AIB category as follows:

1. (AP) Adequacy of the Food Safety Program
2. (PC) Pest Control
3. (OP) Operational Methods and Personnel Practices
4. (MS) Maintenance for Food Safety
5. (CP) Cleaning Practices
6. (COM) Comment - Not a deficiency, but generally a statement of fact, not requiring any action

The scribe should also code each observation with the word designation “Serious,” “Unsatisfactory,” or “Improvement Needed” if the inspection observation fits the definition in the AIB Standards.

**Definitions**

*Unsatisfactory:* Imminent food safety hazard, program failure, or departure from the Good Manufacturing Practices

*Serious:* Important potential food safety risk or risk of program failure

*Improvement Needed:* A potential hazard, partial program omission or food safety finding that is inconsistent with the Good Manufacturing Practices
(GMPs). If this hazard, omission or finding is not corrected, it could lead to a program failure.

**Shall:** A requirement according to the AIB Standards

**Should:** A recommendation according to the AIB Standards

**Product Zone:** The area directly above exposed raw material, intermediate product or material, and/or finished unwrapped food products, processing equipment, and/or equipment surfaces that contact food.

**Product Area:** The area within close proximity of a product zone.

**The AIB Food Safety Rating System: Using the Scoring Procedures**

Upon completion of the inspection, the scribe should number all inspection observations and transcribe them (report item numbers) to the AIB Rating Analysis Recap Form (Appendix I). Item numbers should be entered on the Recap Form in the proper category. Any items with a designation of “Serious” or “Unsatisfactory” should be noted in the classification box under the corresponding designation.

The total number of deficiency items in each category should be placed in the TBC column. This is necessary so the scribe can assign correct scores for each category (do not include any comment items). The scribe and team should reread the inspection observations in the report to assure that the correct category and classification have been assigned. These steps will enable the scribe and the inspection team to analyze the inspection notes according to the criteria in the AIB standards and to translate them into numerical scores.
The scribe should then assign each category a point value within the range given for the category rating classes noted in the section below. This point value should relate to the worst food safety item in each category. For example, the inspection notes may indicate that a hazard should be classed as an “Unsatisfactory” item, a “Serious” item, an “Improvement Needed/Potential Hazard,” or a “Minor Improvement” item.

The total number of items and the level of severity of the worst item(s) will determine whether the category score is at the upper or lower end of the scoring range in each category. Category scores should be in five point increments. If a category item is coded as “Serious” or “Unsatisfactory,” the points assigned to that category must fall within that range.

Scores for the category “Adequacy of the Food Safety Program” must be consistent in assessment criteria, results, and point value with the observations and analyses recorded for the other four categories. This is important, since it will enable an objective analysis of the programs or practices that allowed or caused the deficiencies observed during the inspection. The total plant inspection score is the sum of all the category scores.

**Category Rating Classification**

The following range descriptors will be used to assign category scores:

- Minor improvements needed, no potential for contamination................. 180 - 200
- Some improvement needed, potential hazards noted ......................... 160 - 175
- Serious deficiencies (see definition) ............... 140 - 155
- Unsatisfactory deficiencies (see definition)......... <140
If an unsatisfactory item has been identified, if a management program is unsatisfactory by definition, or if one of the categories has a score below 140 points, the total score classification will be “Unsatisfactory” regardless of the point total.

**Plant Rating Classification**

The plant shall receive a total score classification based on the numerical ranges below:

- Superior ......................... 900 - 1,000
- Excellent ......................... 800 - 895
- Satisfactory ..................... 700 - 795
- Unsatisfactory ......................... < 700

**Inspection Report and Remediation Plan**

After the score has been assigned and the report discussed, a plan for abatement of the food safety risks should be implemented. This plan should focus not only on correcting the deficient item(s), but also on improving the management system to prevent recurrence of the deficiency or deficiencies.

**Public Recognition**

A Certificate of Achievement will be awarded following each inspection that results in a “Superior” or “Excellent” rating according to the criteria and rating system described in the *AIB Consolidated Standards for Food Safety*.

A Certificate of Participation will be issued to plants achieving a “Satisfactory” rating according to the AIB criteria and rating system.
I. Adequacy of Food Safety Program

A. Responsibility and authority for assuring compliance with federal, state, governmental and/or any other appropriate regulatory law or guideline shall be clearly assigned to a competent supervisory-level person or persons, and a functional organizational chart shall be maintained. The competent supervisory-level person shall ensure that all employees are aware of their responsibilities and mechanisms are in place to monitor the effectiveness of their operation. The company shall have a system in place to ensure that it is kept informed of all relevant legislation; food safety issues; legislative, scientific and technical developments; and industry codes of practice. This system may be maintained at a central corporate level or at the plant level.

B. The department(s) responsible for implementing hygiene/sanitation, quality control or quality assurance shall establish written procedures or work instructions outlining specific responsibilities of each department manager and employees in a Quality Manual.

1. These procedures and work instructions will be defined in job descriptions and there will be appropriate arrangements in place to cover for the absence of key employees.

2. This Quality Manual should state the company’s commitment to quality and should have a scope that covers and implements the requirements in these standards.

3. The Quality Manual should be readily available to relevant staff and the company’s management shall regularly review its quality and production system to ensure continued effectiveness and suitability.

4. Included in the Quality Manual shall be a clearly defined and documented quality policy statement that
states the company’s intention to meet its obligations to produce safe and legal products and its responsibility to its customers. The company’s senior management shall demonstrate commitment to the implementation of the Company Quality Policy by signing off on this policy. All supervisory staff and key personnel shall understand and implement the policy and it shall be communicated throughout the company and regularly reviewed.

C. Each food plant shall establish a formal food safety committee. This committee should be multidisciplinary in membership and operate on a predetermined frequency, ensuring that complete inspections of the entire plant are conducted no less than once per month. Records of each inspection are an integral part of this requirement, and documentation of specific assignments and actual accomplishments shall be maintained. Follow-up inspections should be done to ensure that items are corrected.

In addition, the company shall audit those systems and procedures critical to product safety, legality and quality, to ensure they are in place, appropriate and complied with. The audits shall be scheduled and their scope and frequency shall be established in relation to the risks associated with the activity. Internal audits shall be carried out by competent auditors, who should be independent of the area of operation being assessed. Results of the internal audit shall be brought to the attention of the personnel responsible for the activity audited. Corrective actions and timescales for their implementation shall be agreed upon. A record of all programmed internal audits and associated corrective actions shall be maintained. Corrective actions shall be verified to ensure satisfactory completion.
D. All departments directly involved in implementing food safety shall establish an appropriate budget and support to maintain the proper and timely acquisition of appropriate tools, materials, equipment, monitoring devices, chemicals, and pesticides.

E. A Master Cleaning Schedule (see Appendix) for periodic cleaning assignments and a daily housekeeping schedule shall be undertaken as a formalized written plan. It must specify frequency, responsibility, and post-cleaning evaluation and shall be up-to-date. This schedule should include the outside grounds, building, drains, utensils, and equipment, including refrigeration equipment.

The cleaning tasks should be divided into three general areas and included on the appropriate schedule:

<table>
<thead>
<tr>
<th>Type of Task</th>
<th>Appropriate Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Periodic “deep cleaning” tasks, performed other than daily</td>
<td>Master Cleaning Schedule</td>
</tr>
<tr>
<td>Maintenance cleaning</td>
<td>Master Cleaning Schedule</td>
</tr>
<tr>
<td>Daily “housekeeping” tasks</td>
<td>Housekeeping Schedule</td>
</tr>
</tbody>
</table>

F. Detailed equipment cleaning procedures shall be developed for personnel training and maintaining the hygiene level of the equipment. These written cleaning procedures shall be developed and utilized for cleaning of all equipment used for food storage, processing and packaging; for all building areas and for the outside grounds.

G. Inspection and documentation of incoming materials:

1. The appropriate department shall maintain documented procedures for inspecting incoming raw materials.

2. In order to assure product integrity, trained personnel utilizing the appropriate equipment shall inspect all incoming vehicles, raw materials and packaging.
These incoming goods inspections shall include checks for the presence of pest infestation and other objectionable materials.

3. Both dry and liquid bulk deliveries shall include visual inspection both before and after unloading. All findings shall be documented.

4. Records indicating date of receipt, carrier, lot number, temperature (if required), amount, and product condition shall be maintained.

5. Raw materials susceptible to mycotoxins, pathogenic microorganisms or autolysis from temperature abuse should be segregated and covered by a separate written procedure, with appropriate documentation.

H. Appropriate specifications shall be on file for raw materials, packaging materials, finished products, and intermediate/semi-processed products. Specifications shall be adequate and accurate and shall ensure compliance with relevant food safety and legislative requirements. Specifications shall, where appropriate, be formally agreed upon with relevant parties and shall be reviewed periodically.

I. Records of results of examinations and/or copies of supplier’s guarantees or certifications that verify compliance with federal or other governmental regulations, guidelines or Defect Action Levels of raw materials, food packaging, and finished products shall be maintained.

J. Each food manufacturer shall establish a Hazard Analysis Critical Control Point (HACCP) program. The HACCP program shall have senior management commitment. A multi-disciplinary team shall be established and the team leader shall be trained and able to demonstrate competence in understanding and applying HACCP principles. HACCP team members shall have adequate training and experience.
Prior to HACCP plan development, each food manufacturer **shall** have implemented and documented the pre-requisite programs. These programs include, but are not restricted to, cleaning and sanitation/hygiene, GMPs and personnel practices, pest control, preventive maintenance, chemical control, food safety customer complaints, recall and traceability, supplier specifications and control, and receiving, storage and shipping.

The HACCP system **shall** be specific to the application, practical to implement and effective in controlling the identified hazards of the operation. Through this system, the company **shall** be able to demonstrate effective control of all operations undertaken. The seven principles of HACCP **shall** be followed and consist of the following points:

1. Describe each product manufactured and identify hazards inherent to the items being manufactured. An assessment of risk **shall** be included and **shall** identify which hazards are of such a nature that their elimination or reduction to acceptable levels is essential to the safe production of food. The following should be considered, where-ever possible, when conducting the hazard analysis:
   a. The likely occurrence of hazards and severity of their adverse health effects.
   b. A qualitative and/or quantitative evaluation for the presence of biological, chemical, and/or physical hazards.
   c. Survival and multiplication of micro-organisms of concern.
   d. Any conditions leading to the above.

A hazard analysis study **shall** be undertaken for all products, both old and new, to identify and assess all potential safety hazards and associated risks. This
study, where appropriate, may include factory trials and testing to verify that product formulation and manufacturing processes are capable of producing a safe and legal product. Any new products, processes or equipment should also have a HACCP analysis conducted on them during the Research and Development phase to identify and assess all potential safety hazards and associated risks.

2. Determine the critical control points (CCPs) and identify the procedure for controlling the hazard. CCPs, identified in relation to the operation, shall be controlled and monitored within predetermined critical limits.

3. Identify the critical limits associated with each CCP necessary to control each hazard identified.

4. Specify monitoring frequency and designate person(s) responsible for testing.

5. Establish and document deviation procedures.


7. Maintain documentation of procedures, records of conformance and effective correction actions resulting from non-conformance.

All processes and process lines shall be covered by the HACCP system and each HACCP plan shall be appropriately reviewed. This review should occur at least yearly.

K. The Personnel Department shall create specific, written procedures for providing food safety training to all personnel, including new employees, and maintain a record of training completion. This training will include the written employee policies that have been established for the company. Refresher training should be done on an annual basis. Prior to beginning work, temporary personnel and contractors shall be trained as appropriate,
and **shall** be adequately supervised throughout the working period.

L. A formalized written program for evaluating consumer complaints, particularly those related to adulteration, **shall** be established. This program **shall** conform to company policy and should include the rapid dissemination of complaint information to all departments responsible for implementing the food safety program. Complaint information **shall**, where appropriate, be used to avoid recurrence and implement ongoing improvements to product safety, legality and quality. Actions appropriate to the seriousness and frequency of the problems identified **shall** be carried out promptly and effectively.

M. A formal recall program **shall** be on file for all products being manufactured. A written procedure should be on file and **shall** be regularly reviewed, and if necessary, revised to ensure it is current. All products **shall** be coded and lot or batch number records **shall** be maintained. Distribution records **shall** be maintained to identify the initial point of distribution to facilitate segregation and recall of specific lots. The recall program should be tested every six months and the test should be documented. As a part of the recall program and product traceability, the company **shall** adequately identify all raw materials and be able to trace work-in-progress and finished product at all stages during manufacture, storage, dispatch and, where appropriate, distribution to the customer. Where rework or any reworking operation is performed, traceability **shall** be maintained and procedures **shall** be implemented to ensure the safety, legality and quality of the finished product.

N. Clear procedures for the control of non-conforming work-in-progress, finished or returned product **shall** be in place and understood by all authorized personnel. These procedures should include disposition by rejection, acceptance with restrictions, or regrading for an alternative
use. Corrective actions **shall** be commensurate with the seriousness of risk identified. Adequate documentation **shall** be kept of the action taken. All non-conforming product **shall** be handled or disposed of according to the nature of the problem and/or the specific requirements of the customer. Disposition of non-conforming material should be tracked to ensure that inventories are adjusted accordingly to facilitate recall. Damaged or destroyed materials should be recorded and proper adjustments to the product inventory records should be made to accurately account for the damaged or destroyed materials.

O. Each food manufacturer **shall** establish a procedure for handling governmental or regulatory inspectors and third party auditors. This procedure should include:

1. Person or persons delegated to accompany all inspectors
2. Company policy regarding photographs
3. Company policy regarding records and samples

P. Processing records **shall** be maintained and **shall** contain sufficient information to comply with government regulations.

1. This is to be done by having written operating procedures, instructions and reference documents to verify that processes and equipment employed are capable of producing consistently safe and legal product with the desired quality characteristics.
   a. These written, detailed procedures, instructions, and reference documents **shall** cover all processes critical to product safety, legality and quality. Documents **shall** be clearly legible, unambiguous and sufficiently detailed to enable the appropriate personnel to associate the documents with the corresponding process. The documents **shall** be readily accessible at all times. The documents **shall**
be properly authorized and the correct version kept on file.

b. The company shall maintain legible, genuine records to demonstrate the effective control of product safety, legality and quality. The company shall have in place procedures for collation, review, maintenance, storage and retrieval of all records pertaining to product safety, legality and quality. The records shall be retained in good condition, for an appropriate defined time period so that they can be reviewed. Any amendments to records should be appropriately authorized.

2. In the event of changes to product formulation, processing methods, equipment or packaging, the company shall, where appropriate, re-establish process characteristics and validate product data, to ensure product safety, legality and quality. The reason for any changes or amendments to documents critical to product safety, legality or quality systems and procedures shall be recorded. A procedure should be in place to ensure obsolete documentation is rescinded, and if appropriate, replaced with a revised version.

3. In the case of equipment failure or process deviation, procedures shall be in place to establish the food safety status of the product, prior to release for further processing or distribution. The company shall ensure procedures exist to investigate the cause of significant non-conformity to standards, specifications and procedures which are critical to product safety, legality and quality. Corrective actions shall be undertaken in a timely manner to prevent further occurrence of non-conformity. Any corrective action plan relating to safety, legality, or quality shall only be approved by personnel who have defined responsibility and
accountability for these areas of control. These personnel shall also be responsible for verifying that the corrective action plan has been completed satisfactorily. Corrective actions shall be accurately documented, showing responsibility and accountability for completion.

4. The company shall undertake or subcontract analyses critical to product safety, legality and quality using appropriate procedures and facilities. Procedures shall be in place to ensure reliability of test results. Personnel undertaking analyses shall be suitably qualified, and/or trained and shall be competent to carry out the analyses required.

Q. The company shall have documented procedures for evaluation, selection, and maintenance of approved suppliers of goods and services that affect product quality and food safety. An up-to-date list of approved and non-approved suppliers is required. The procedures shall define how exceptions are handled, i.e., the use of products or services, where inspection or monitoring has not been undertaken. These procedures shall include clear criteria for initial and ongoing assessment and standards of performance required. Assessment may take the form of monitoring performance through in-house checks, certificates of analysis or extend to supplier inspection, as appropriate. Supplier assessment may include evaluation of HACCP systems, product safety information, and legislative requirements. The methods and frequency of assessment should be based on the risk to the organization. Where the company undertakes or subcontracts analyses critical to product safety, legality and quality, the laboratory shall be independently accredited by a competent body.

R. A glass and brittle or hard plastics policy shall be written and implemented. The policy should state that no glass or
brittle plastics are to be used in the plant, except where absolutely necessary. The policy should also state that no glass should be brought into the plant in employees’ personal effects. Included in the policy should be a procedure for handling any glass that is broken in the plant. The procedure should also cover any brittle or hard plastic that is broken in a location where it could jeopardize the product. In addition, a list of all essential glass and brittle plastics should be compiled and the items on the list checked on a regular basis to ensure that any accidental breakage is noted.

S. A formal preventive maintenance program and work order system shall be in use to prioritize the elements of identified structural, equipment, or utensil maintenance problems that could cause food adulteration. The company shall ensure that the safety and legality of product is not jeopardized during maintenance operations.

T. Food processing operations shall establish a formalized program for the control of bacteria, yeast, and mold, if required. Records of laboratory analysis and/or environmental samples shall be maintained by the appropriate department, if necessary. On site laboratory facilities, where provided, shall not jeopardize the safety of product.
II. Pest Control

A. A formalized preventive pest control program shall be maintained in the plant. The pest control program may be undertaken by trained in-house personnel or be provided by an outside pest control contractor. The plant shall maintain written procedures outlining the requirements of the program to reduce the potential for product contamination from pest activity or the use of materials and/or procedures designed to control pest activity. Pest control activities shall at all times be conducted in total compliance with the regulatory requirements of the agency controlling such procedures. In addition, specific programs and procedures will include as a minimum:

1. Pesticide applications made within a plant or on the grounds of a plant will be undertaken by a licensed pest control contractor or properly licensed or trained in-house employee, where such licensing provisions are required by government codes. In the absence of such regulatory requirements, applicators must demonstrate they have received proper training in the proper and safe use of pest control materials by attendance at a recognized seminar or have documented training and be under the supervision of a licensed applicator, where required by government codes. Pesticides designated for “Restricted Use” shall only be used by trained, licensed pest control applicators, where a license is required by government codes.

2. The plant serviced by in-house personnel (licensed or trained pesticide applicator or applicator(s)) shall:
   a. Maintain a file of sample labels and chemical safety data information for each pesticide used and shall maintain pesticide usage records as well as records on maintenance of the safety and protective equipment used.
b. Maintain and enforce written procedures for the application of all pesticides.

c. Maintain accurate records of application of pesticides as outlined in section 3. d. below.

3. Facilities serviced by a contracted licensed pest control company shall maintain the following:

a. A contract describing the specific services to be rendered, including materials to be used, methods, precautions, and chemical safety data information required by government regulations.

b. Sample labels for all pesticides used. Sample labels shall be kept on file for the time specified by regulatory codes.

c. Accurate and complete service records describing current levels of pest activity and recommendations for additional efforts needed to correct conditions allowing a potential for pest activity.

d. Accurate documentation of all pesticide applications, including rodenticides, made in or around the plant. Documentation shall be maintained in accordance with government regulations and must document, at a minimum:

   i. Materials applied
   ii. Target organism
   iii. Amount applied
   iv. Specific area where pesticide was applied
   v. Method of application
   vi. Rate of application or dosage
   vii. Date and time treated
   viii. Applicator’s signature
e. A copy of the current liability insurance and evidence of a current applicator’s license, where a license is required.

B. All facilities shall establish effective preventive programs for the elimination of pest activity. The effectiveness of the programs will be measured by the lack of observation of pest activity and evidence. Specific procedures include but are not limited to:

1. Outside bait stations for the control of rats and mice. These bait stations should meet tamper resistance standards and shall be properly positioned, anchored in place, locked, and properly labeled in compliance with regulatory requirements. The bait stations shall be installed around the exterior perimeter of the plant at 50-100 foot (15-30 meter) intervals. Where allowed by local ordinance, the stations should also be installed along the fence line in accordance with industry best practice. Properly maintained mechanical rodent control devices may also be used, where allowed by government regulations.

Lids to the bait stations shall be locked with devices supplied by or recommended by the manufacturer. The use of reusable plastic ties or other easily cut or tampered with materials shall not be used.

Baits used shall be approved registered rodenticide or monitoring (non-toxic) feeding blocks.

Service conducted on the monitoring devices shall be in line with levels of rodent activity in the stations. However, all stations shall be inspected and serviced no less than once per month. Each service and the results of the service will be documented for each station or device and maintained on file.

2. Internal measures shall comply with government regulations. Unless prohibited by regulatory
requirements, internal control programs shall consist of the use of mechanical traps, extended trigger traps, or glue boards, but should not include feeding stations of any kind.

In countries where mechanical traps and/or glueboards are prohibited by law, internal feeding stations containing non-toxic bait may be used for monitoring purposes. These feeding stations shall be used in a manner consistent with the label directions for the bait and in a manner that minimizes the potential for contamination of the food products or materials in storage. These stations shall contain only non-toxic bait, unless evidence of rodents has been documented in the recent past. If activity has been found, toxic bait can be used until the activity is eliminated. Non-toxic bait should then be reinstalled in the stations for routine monitoring purposes.

These stations should be constructed of a durable material such as hard plastic and should be kept locked and secured to keep them in place. Measures taken should be in response to the level of activity present.

It is recommended that the internal devices used for routine monitoring purposes be positioned at 20-40 foot (6.5-13 meter) intervals along exterior perimeter walls. Where possible, rodent control devices should be installed at each side of exterior overhead and pedestrian doors or where there is a potential for rodent entry into the plant. In any area where there is a potential for rodent activity, such as raw material storage areas within a plant, rodent control devices should be installed along interior walls. The contractor or plant personnel shall inspect and clean the devices at least once a week.

3. Maps or schematics showing the locations of the rodent control devices shall be maintained and kept
current. A record of the service and cleaning of each rodent control device shall be maintained in each device. The service documentation should include the findings from the device inspections.

4. Rodent burrows, rodent runs, and any conditions attracting rodents or other pests both inside and outside the plant shall be eliminated.

5. Electric flying insect monitors should be used as needed to identify flying insect entry into the plant. Units should be installed so that insects are not attracted from outside the building. Units should not be placed within 10 feet (3 meters) of exposed product on a production or packaging line. All units should be listed on the Master Cleaning Schedule for cleanout on a weekly schedule during peak insect season. They can be cleaned monthly during off-peak season. Installation and use must follow all local regulations. The light tubes should be changed on an annual basis and records of this maintained.

6. Birds shall be controlled by exclusion: netting, screening, mechanical traps or avicides, if legal and practical. The use of avicides is not permitted inside the plant.

7. All pesticide containers and application equipment shall be properly labeled to identify the contents. Insecticides or herbicides each require separate equipment for application. All equipment used for pesticide application shall be properly maintained in serviceable condition.

8. Pesticides stored in a plant shall be stored in a locked enclosure, preferably in an outside building away from production areas. Easily understandable labeling warning of the contents and limiting access shall be posted on the exterior entrances to this enclosure. The storage enclosure shall be adequate in size and
construction and well ventilated. The enclosure shall contain the necessary materials to control spills or leakage and to avoid injury to personnel.

9. Disposal of pesticides, pesticide containers and pesticide residues shall be done in a manner that meets all regulatory guidelines and must be consistent with the instructions included on the label for the material.

C. Pest monitoring devices and appropriate integrated pest management strategies should be properly used to provide ongoing monitoring for pest activity and to design an effective control program to eliminate pests and the potential for pest activity.
III. Operational Methods and Personnel Practices

A. The procedures for receipt, storage, and handling of raw materials shall be established and comply with the Good Manufacturing Practices. The procedures shall include the following criteria:

1. Receipt and Storage of Materials:
   a. Damaged and/or badly soiled or infested containers shall not be accepted.
   b. Materials shipped in damaged, dirty, or infested vehicles shall be rejected. Proper documentation specifying defects and reasons for rejection shall be maintained.
   c. Perishable or frozen materials shall meet specific minimum temperature requirements at point of receipt. Proper documentation shall be kept.
   d. All receiving dates shall be placed on the bottom unit of the pallet or individual container and be readily visible. The placing of receiving dates on stretch-wrap should be discouraged.
   e. Storage practices shall be appropriate to the item being stored. Ingredients, finished goods, packaging and other items shall be stored off the floor and at least 18 inches (50 cm) away from walls and ceilings. Storage off the floor can be on pallets, slipsheets or stands. Adequate space for cleaning shall be maintained between rows of stored products. The recommended space is 14 inches (40 cm) between every two pallet rows. Storage slots and traffic lanes should also be provided for items stored at floor level. If an 18-inch (50 cm) clearance is impossible due to aisleway widths and the turning radius of forklifts, the rack system can be installed against the wall.
In this instance, a bottom rail must be installed 18 inches (50 cm) off the floor so that no pallets are stored on the floor. This will allow for cleaning, inspection and monitoring for pests.

f. All ingredients and packaging, including labels, shall be stored in a clean, well ventilated, and dry area and be protected from condensate, sewage, dust, dirt, and toxic chemicals or other contaminants. Any partially used packaging materials shall be effectively protected before being returned to storage. If possible, packaging should be stored away from raw materials and finished product. Where packaging materials pose a product safety risk, special handling procedures shall be in place to prevent product contamination or spoilage. Failures and corrective actions taken shall be recorded.

g. Proper rotation of all ingredients, packaging supplies, and other materials shall be undertaken on a “first-in, first-out” (FIFO) basis or other verifiable method to ensure stock rotation.

h. Inventories should be maintained at reasonable and appropriate volumes to avoid excessive age and insect infestation. A repalletizing program shall be implemented for all materials in storage for more than four weeks, and the repalletizing date shall also be affixed near the original receiving date.

i. Pallets and skids shall be kept clean and in good repair. When pallets or other wooden surfaces are washed, they should be properly dried before use. Slip-sheets should be used between pallets and bags of ingredients and between double-stacked pallets to protect ingredients from damage by the pallet.
j. All toxic chemicals, including cleaning and maintenance compounds, and all nonproduct related materials, such as parts and equipment, **shall** be completely segregated from all food ingredients and packaging supplies.

k. Complete segregation of Research and Development items and other infrequently used raw materials and packaging supplies should be confined to a designated area and regularly inspected for signs of potential or actual contamination.

l. A designated morgue and/or salvage area **shall** be provided and fully segregated from usable stock to prevent possible contamination. Reworking of salvage **shall** be undertaken weekly or as necessary to keep quantities at minimal levels. Rework **shall** be identified so as to maintain traceability.

m. The company **shall** ensure that product is not released unless all release procedures have been followed. The company **shall** ensure that product is only released by authorized personnel.

n. All breather bags and socks **shall** be stored in a dust-free environment. These **shall** be designed and fabricated to prevent possible contamination from threads, fuzz, fibers, etc. and **shall** be kept clean.

o. All outside receiving lines or caps to both bulk dry or liquid ingredients **shall** be locked and identified.

p. Clear and concise sampling procedures **shall** be developed for obtaining quality control samples required from ingredient containers. All openings created for sampling will be properly resealed and identified as such.
q. Packaging should be free from staples and other items likely to cause contamination.

r. When unloading bulk materials, appropriate means of filtering of air or covering of the inspection hatch shall be provided to eliminate potential for entry of foreign bodies or insects during the unloading process.

s. If seals are present on bulk container hatches or other shipping containers, the seal number should be checked against the seal number on the bill of lading to ensure that the two numbers match.

B. Transfer and Handling of Materials:

1. Personnel should quickly eliminate spillage, leakage, and waste at all times.

2. Containers shall be kept off the floor at all times and covered when not in use, and all ingredient storage containers shall be properly identified to maintain ingredient identity and traceability throughout usage.

3. All materials selected for transport to processing areas should be visually inspected and cleaned prior to transport. Drums and barrels should be wiped clean. Packaging material should be removed from its protective outer packaging outside production areas to eliminate risks of contamination.

4. All sifters, sieves, rebolters, and scalpers for flour and other finely divided ingredients shall be checked at least weekly for torn screens and other defects. Records of these checks shall be maintained by appropriate department heads. Reject materials (tailings) shall be visually inspected no less than daily with the observations documented. The source of any unusual foreign objects should be identified and addressed. If any foreign objects are observed in the tailings that could have damaged the sifter, rebolter,
or scalping screens, those screens should be immediately inspected for damage to ensure effective foreign body control.

5. All dry ingredients shall be sifted and all liquid ingredients strained before use:
   a. A minimum of 30 mesh (600 micron) screen for all finely milled material.
   b. 16 mesh (1000 micron) for all other materials that will pass through such a screen.
   c. Fruits, nutmeats, coconut, etc., shall be visually examined before use.

6. All bulk liquid ingredients shall be provided with accessible and cleanable in-line receiving strainers. Strainer mesh sizes must be sufficiently restrictive to remove foreign matter.

7. Rubbish, trash, or inedible waste shall be stored in properly covered labeled containers and emptied at least daily. When rubbish or inedible waste is transported, it must not come in contact with raw materials, work-in-progress, or finished product. Waste disposal shall meet legislative requirements. Where appropriate, waste shall be removed by licensed contractors.

8. All in-use ingredient containers shall have individual transfer scoops. The use of a common scoop for multiple ingredients shall be strictly prohibited in order to prevent cross contamination.

9. All carry-over product, work-in-progress, and/or ingredients shall be properly identified and dated. All carry-over shall be minimized and used promptly at the first opportunity.
C. Operational Appearance:

1. Production equipment should be installed and supplies should be arranged in an orderly fashion. No portable, infrequently used equipment should be stored in production or ingredient storage areas. Equipment should be installed to provide access for cleaning.

2. Adequate work space and storage should be provided to enable the operations to be performed under safe, hygienic conditions.

3. Ongoing housekeeping operations by production and all support departments shall be done routinely throughout the operating hours to maintain the work areas in a reasonably sanitary environment. Operational debris should be kept at a minimum.

D. Operational Practices:

1. Effective measures shall be taken to prevent the inclusion of metal, wood, glass and all other extraneous materials. Where staples or other items likely to cause contamination must be used in packaging, appropriate precautions shall be taken to minimize the risk of product contamination.

   a. This can be accomplished through the use of sifters, magnets, strainers and metal detectors at appropriate locations. Metal detection equipment shall be provided on each product line at the last possible point. The metal or foreign matter detector shall incorporate both an alarm, and where applicable, an automatic rejection device, which shall either divert contaminated product into a locked box, accessible only to authorized personnel, or for continuously extruded product only, identify via an appropriate mark the location of the contaminant. Only where automatic rejection or identification is not possible will a simple line-stop be acceptable.
b. All such measures **shall** be monitored and documented regularly. The company **shall** establish and implement procedures for the operation, routine monitoring and testing of the metal and other foreign body detectors.

c. The company **shall** establish and implement corrective action and reporting procedures to respond to any failure of the metal or foreign body detector. These will include the isolation, quarantining and re-inspection of all food produced since the last acceptable test of the metal or other foreign matter detector.

2. Suitable and sufficient handwashing facilities **shall** be provided at the entrance and at other appropriate points within production areas. These facilities **shall** be provided with an adequate water supply maintained at appropriate temperatures and supplied with single use towels or air dryers. Hand sanitizing stations **shall** be provided where appropriate. Sanitizers for such stations **shall** be regularly monitored for proper concentration to ensure effectiveness. Containers for disposable paper towels should be kept covered.

3. All washrooms, showers, and locker rooms **shall** be maintained in a sanitary manner and kept free of insects, rodents, and mold. Monthly inspections should be undertaken of all company owned employees’ lockers for sanitary controls. Open food or drink in lockers **shall** be strictly prohibited. “Wash Hands” signs **shall** be properly displayed in all rest rooms, lunchrooms and smoking areas. Where applicable, the signs **shall** also appear over sinks or entryways to production areas.

4. Single-service containers **shall not** be reused and **shall** be properly disposed of after being emptied. Egg containers **shall not** be reused under any
circumstances and shall not be washed in sinks, or rack/pan washers or in other equipment used for washing utensils or production equipment. All such containers shall be rendered useless by crushing, puncturing, or similar type of disposal.

5. Production facilities, equipment, and/or accessories shall be so designed or provided to facilitate minimum hand contact with raw materials, work-in-progress or finished product.

6. Raw materials, work-in-progress materials and finished product capable of supporting the rapid growth of pathogenic microorganisms shall be held at either 40°F (4°C) or below or 140°F (60°C) or above to whatever degree as appropriate and necessary to maintain internal temperatures below 40° (4°C) or above 140°F (60°C). Frozen materials should be held at 0°F (-18°C) or below.

7. Effective measures shall be undertaken to prevent cross contamination between raw materials, refuse and finished foods. Incompatible materials, i.e., raw and cooked products, shall be stored in an appropriate manner and under conditions to prevent cross contamination. Particular consideration shall be given to the avoidance of cross contamination by ingredients which would constitute a safety issue, e.g. allergens, or which cause significant consumer dissatisfaction e.g. meat in vegetarian product. The systems of working shall, where appropriate, be such to reduce any potential physical, chemical or microbiological contamination risks.

8. Equipment, containers, and utensils used to convey, process, hold or store raw materials, work-in-progress, rework or finished foods shall be constructed, handled and maintained during processing or storage in a manner that prevents the contamination of raw
materials, rework or finished foods. All containers for work-in-progress or finished product should be used only for designated purposes.

E. Delivery Practices:

1. Finished products shall have permanently legible code marks that are readily seen by consumers. Code marks shall satisfy regulatory packaging requirements and “lot” definitions and shall be utilized in the product recall program.

2. Distribution records shall be maintained to identify initial distribution as per governmental regulations, and finished products shall be handled and transported in such a way that prevents their actual or potential adulteration.

3. All shipping vehicles shall be inspected prior to loading for cleanliness and structural defects that could jeopardize product integrity. These inspections shall be documented. Company-owned vehicles used to transport foods shall be visually examined, cleaned, and maintained to prevent product adulteration. All local delivery trucks shall be internally inspected and cleaned, at least weekly, to identify possible sources of contamination from pests and/or foreign materials. Common carriers and customers should be encouraged to maintain their respective delivery vehicles in a hygienic condition and in reasonable repair.

4. Temperatures of perishable and/or frozen products shall be taken and recorded upon loading of trucks. All such products shall be loaded into a precooled vehicle designated and maintained to sustain required temperatures during delivery. Temperatures of the precooled vehicles shall be checked and recorded prior to loading. Procedures shall, where appropriate, be in place in the case of transportation breakdown. These
procedures shall ensure product safety, legality and quality.

5. Where the material transported is susceptible to weather damage, vehicles shall be loaded and unloaded in covered bays so as to protect the material.

F. Personnel Practices:

1. Responsibility for assuring compliance by all personnel to plant policy shall be clearly assigned to competent supervisory personnel.

2. Employees shall be encouraged to practice good personal hygiene habits at all times.

3. Hand washing shall be performed at a frequency that is appropriate and should be done any time the hands become soiled. Hands should be washed before beginning work, after using toilet facilities, eating, drinking, smoking or otherwise soiling hands. The effectiveness of hygiene procedures with regard to hands should be checked periodically.

4. Employees shall adhere to the following principles when handling raw materials, work-in-progress, or uncovered finished product:

   a. Wear clean outer garments or uniforms. Suitable footwear shall be worn within the plant environment. Changing facilities shall be provided for all personnel, whether employees, visitors or contractors, prior to entry to production or packing areas, and where appropriate, prior to entry to storage areas. Changing facilities shall be sited to allow personnel direct access, without recourse to any external area, to the appropriate production, packing or storage area.

      i. Personnel shall enter a high risk operation via a specially designated changing plant, and shall follow appropriately specified
procedures for donning visually distinctive clean overalls, headwear, and footwear. Personal clothing above the knee should be completely covered by workwear. High risk area workwear shall be removed only in a specially designated changing area.

ii. All protective clothing shall be laundered effectively on a regular basis and should be laundered on site or by a contract laundry.

iii. Gloves, if worn, should be subject to adequate control to avoid product contamination.

iv. Outdoor clothing and other personal items shall be stored separately from workwear within the changing facilities.

b. Wear effective hair restraints to include where applicable head, beard, and mustache covers to fully contain hair and beards. AIB recommends hairnets.

c. Remove insecure costume or hand jewelry, including watches, earrings, rings with settings, false fingernails, fingernail polish, and dangling jewelry. Only plain wedding bands are acceptable, unless prohibited by plant policy and/or safety requirements. Any exception to this shall be spelled out in the company policy and the reasoning behind it explained.

d. Perfume or aftershave should be avoided by employees in contact with food products.

5. Eating food, drinking beverages, chewing gum, and using tobacco products shall be restricted to designated areas only.

6. Employee lunches and/or personal effects shall not be stored or placed in production or ingredient storage areas. Examples would include sweaters, jackets,
shoes, smoking materials, etc. All personal property should be stored in an area defined by company management. Suitable and sufficient rest and catering facilities should be provided for all staff.

7. Personal items such as pens, pencils, or thermometers shall be carried in pockets or pouches below the waist when employees are in production areas. There should be no pockets above the waist on the outside of protective clothing.

8. No person with obvious boils, sores, infected wounds, or any other infectious or communicable disease shall be permitted to contact food except as required by local or national law. All employee health cards shall be kept current and properly posted if required by local law. The company shall have a procedure for the notification by employees, including temporary employees, of any relevant infectious disease or conditions with which they may be suffering, or have been in contact. All cuts and grazes on exposed skin shall be covered by a detectable blue metal strip bandage that is company issued and is regularly tested with a metal detector.

9. Noncompany personnel shall be required to conform to company food safety/hygiene policies and the Good Manufacturing Practices (GMPs). These would include, but not be limited to: visitors, regulatory authorities, outside contractors, tour groups, and employees’ family and friends. Visitors and contractors shall, where appropriate, undergo medical screening before entering the raw material, preparation, processing, packing and storage areas.
IV. Maintenance for Food Safety

A. The site shall be located and maintained so as to prevent contamination and enable the production of safe and legal products. Consideration shall be given to local activities that may have potentially adverse impact, and measures shall be taken to prevent product contamination. The site boundaries should be clearly defined. Measures necessary to protect the site from any potential contaminants should be in place and periodically reviewed to ensure they continue to be effective.

B. Building Structure:

1. The grounds around any food plant shall be maintained in a manner that will prevent the possibility of food adulteration. The methods for adequate grounds maintenance include, but are not limited to:

   a. Proper storage of equipment away from walls and off the ground to prevent harborage and allow inspection and so the equipment is protected from contamination and deterioration. Storage out of doors should be kept to a minimum.

   b. Removal of litter and waste, removal of weeds or tall grass from within the immediate vicinity of the building.

   c. Maintenance of roads, yards, and parking areas to keep them free of dust, standing water or other potential contaminants.

   d. Provision of adequate drainage from grounds, roof or other areas.

   e. Installation and maintenance of outside wet and/or dry waste or scrap compactors, modules, and dumpsters to minimize leakage or to contain such leakage, permitting the container to be easily removed and the area cleaned. External waste
collection containers and compactors should be closed and/or covered.

f. Measures **shall** be in place to maintain site security.

g. The site should be securely enclosed.

2. All structural beams, supports, and other structural systems that are painted **shall** be maintained in an appropriate manner to preclude or eliminate any chipping, flaking, or peeling paint.

3. Sufficient space should be provided for proper placement of equipment and storage of materials. Adequate aisles or a workspace **shall** be maintained between equipment and/or structures to allow adequate cleaning.

4. Bulk systems and unloading areas **shall** be installed and maintained to prevent the adulteration of raw materials or finished product.

5. Floors, walls, and ceilings **shall** be of such construction as to be adequately cleanable and kept in good repair. The following are further guidelines to assist in this:

   a. Walls should be designed, constructed, finished and maintained to prevent the accumulation of dirt, reduce condensation and mold growth, and facilitate cleaning.

   b. Wall/floor junctions and corners should be coved to facilitate cleaning. Cavities in the surface of walls and floors should be avoided to prevent debris from lodging and to avoid pest harborage.

   c. The use of glass within the plant, equipment or structure should be avoided. A comprehensive glass policy should be in place if glass must be used.
d. Floors should be designed to meet the demands of the process and withstand cleaning materials and methods. They should be impervious and maintained in good repair. Floors should have adequate sloping to direct the flow of any water or effluent towards suitable drainage.

e. Adequate floor drains with grates **shall** be installed, maintained and operational in all wet processing or wash areas. All floor drain grates must be easily removable for cleaning and inspection. The drains should be easily accessible for cleaning.

f. Consideration should be given to the location of machinery and drains so that any discharge or overspill from processing goes directly into a drain rather than on the floor.

g. Drainage **shall not** compromise product safety and **shall** flow away from high risk areas. Drainage **shall** be designed and maintained to minimize risk of product contamination.

h. Where hollow or suspended ceilings are used, adequate access to the void **shall** be provided to facilitate cleaning, maintenance of services and inspection for pest activity. Ceilings and overheads should be designed, constructed, finished and maintained to prevent the accumulation of dirt, reduce condensation and mold growth, and facilitate cleaning.

i. Roof leaks **shall** be promptly identified and repaired.

6. Fixtures, ducts, and pipes **shall** be installed and maintained in such a manner that drips or condensate do not contaminate foods, raw materials, or food-contact surfaces.
7. Adequate lighting shall be provided in all areas. Light bulbs, fixtures, windows, mirrors, skylights, or other glass suspended over product zones, product areas, ingredients, and packaging supplies shall be of the safety type or otherwise protected to prevent breakage. Emergency lighting and the headlights on forklifts should also be protected. Where full protection cannot be provided, the glass management system shall take this into account.

8. Adequate ventilation should be provided in product storage and processing areas to minimize odors, fumes, and vapors. Air makeup units shall be fitted with clean filters and maintained free of mold and algae.
   a. Air return ducts for heating and air conditioning systems or air makeup units shall be provided with cleaning and inspection hatches. Fans, blowers, filters, cabinets, and plenums shall be placed on a preventive maintenance schedule to prevent possible development of mold or insects, or the collection of foreign material.
   b. Windows and skylights should be non-opening. Where windows and doors must be kept open for ventilation, they shall be screened to prevent access by pests.
   c. Dust extraction equipment for dry powder handling equipment should be installed.

9. Fans and other air blowing equipment shall be located, cleaned, and operated in a manner that does not cause contamination of raw materials, work-in-progress, finished foods, food packaging materials, and food-contact surfaces.

10. The physical building shall be maintained to provide necessary barriers for effective protection against
birds, animals, vermin, and insects, and the maintenance department shall be responsible for the elimination of cracks and crevices as well as other insect or rodent harborages. Where external doors to raw material handling, processing packing and storage areas are kept open, suitable precautions shall be taken to prevent pest ingress. Doors in these areas shall be close-fitting or adequately proofed.

11. The maintenance department shall be responsible for the prevention of and the systematic elimination of leakage and excessive lubrication. Where drive motors are mounted over product zones or where conveyors cross or run parallel to others at different levels, catch pans shall also be fabricated and installed.

12. Segregation of operations shall be undertaken to the degree appropriate and reasonable and shall take into account the flow of product, nature of materials, equipment, personnel, airflow, air quality and services provision. Such segregation can be accomplished through the use of air curtains, partitions, doors, and/or other exclusionary systems. The process flow from receiving to shipping shall be arranged to prevent product contamination and there shall be an effective segregation between high and low risk operations to minimize the risk of product cross-contamination. Facilities for tray and utensil washing and general purpose cleaning shall, where appropriate, be adequately segregated from production activities.

13. Each plant shall develop design standards to apply to all repairs, changes, or modifications of the structure to reduce the potential for contamination issues or pest harborage and facilitate cleaning.
C. Equipment:

1. All plant equipment and utensils **shall** be designed and of such material and workmanship as to be adequately cleanable and **shall** be properly maintained. Equipment **shall** have approval from a recognized certification organization whenever possible and practical.

2. Temporary materials such as tape, wire, string, cardboard, and plastic **shall not** be used for permanent repairs. If these materials must be used for emergency repairs, they **shall** be dated and replaced with a proper permanent repair as soon as possible.

3. Food-contact surfaces **shall** be corrosion-free and be made of a nontoxic material.

4. Seams on food-contact surfaces, when necessary, **shall** be smoothly bonded. Spot or tack welds are prohibited.

5. All ingredient, product-holding, and packaging conveying and processing systems, including bulk systems, **shall** be so designed and constructed in such a way that they can be adequately cleaned and inspected.

6. Wooden processing equipment should not be permitted for exposed raw materials, work-in-progress, or unwrapped finished product.

7. All regulating and recording controls, thermometers, or other temperature measuring devices **shall** be installed and routinely calibrated on any equipment intended to sterilize, pasteurize, or otherwise prevent the growth of pathogenic microorganisms. This calibration should be traceable to a national standard. In addition, thermometers should be present inside coolers, freezers, and other temperature-controlled storage rooms.
Ongoing monitoring of temperature control systems shall be frequently undertaken with proper documentation maintained and readily available. Mechanical monitoring systems shall also be utilized and shall trigger an alarm when temperatures exceed limits. The temperature recording devices shall be linked to suitable failure alarms.

8. Compressed air used in processing shall be properly filtered to remove particles of 50 microns or larger and shall not contain dirt, oil or water. Traps and/or filters shall be inspected and/or changed regularly. The filters for air used on product contact surfaces should be located as close to the point of use as practicable.

9. Only food-grade lubricants shall be utilized on food processing machines. All such lubricants shall be fully segregated and stored in a secured and designated area. Excess lubricant shall be removed after equipment is serviced.

10. Flaking paint on equipment or excessive rust other than normal mild oxidation on mild black steel or ferrous metal is prohibited.

11. Pan trucks, hand jacks, forklifts, and other transporting equipment should be maintained in such a manner that prevents the adulteration of products being transported.

12. All product-contact conveyor belts of a nonwashable material should be stored in a dust-free environment and wrapped in polyethylene or similar sanitary covering. All used and soiled product and conveyor belts will be promptly discarded and not stored for future use.

13. Only clean repair parts and equipment should be stored in the parts storage areas.
D. Services:

1. All establishments **shall** have a potable water supply from an approved source. For underground well water supplies, sampling of the water **shall** be undertaken on a frequency consistent with local health department codes and governmental law. Proper documentation **shall** be readily available.

2. The quality of water, steam or ice that comes in contact with food **shall** be regularly monitored and **shall** present no risk to product safety. Boiler chemicals should be approved for food contact if the steam generated comes in direct contact with food.

3. All water installations and equipment **shall** be constructed and maintained to prevent back siphonage and/or backflow.

4. The sewage disposal system **shall** be adequate and appropriate for the process and **shall** be maintained to prevent either direct or indirect contamination of food.

5. All washrooms, hand sinks, and locker rooms **shall** have both hot and cold running water readily available. Mix valves to adjust water temperatures **shall** also be provided. It would be desirable to provide automatic foot or knee or infra-red operated valves in production areas. Toilet rooms **shall not** open directly into production, packing or storage areas.
V. Cleaning Practices

A. Cleaning operations shall be performed in a manner to prevent contamination of materials and products. Cleaning or replacing light fittings and glass shall be done in a manner to minimize the potential for product contamination.

B. Only cleaning compounds and sanitizers authorized for food contact surfaces shall be used for cleaning. Appropriate verification procedures or testing shall be done periodically to insure that the concentration of Clean-In-Place (CIP) and other cleaning chemicals are consistent with the product labeling.

C. When not in use, all cleaning compounds and sanitizers shall be properly labeled and stored in a locked compartment, away from production and food storage areas.

D. Cleaning equipment and tools shall be supplied and be readily available for use. All cleaning equipment shall be maintained and stored in such a way as not to contaminate foods or food equipment.

E. Cleaning Definitions:

1. “Deep Cleaning”
   a. “Deep cleaning” shall be assigned to the appropriate department(s) and shall be accomplished by and consistent with a Master Cleaning Schedule or its equivalent.
   b. The use of air hoses for cleaning is permitted only for inaccessible equipment and in conjunction with deep cleaning operations.
   c. All cleaning procedures shall be carried out in compliance with applicable safety laws and regulations and according to formally established equipment cleaning procedures. When undertaken safely and in compliance with local and national
laws and regulations, all equipment guards, trims, and panels shall be removed for inspection and cleaning of the interior of all equipment according to the Master Cleaning Schedule. All equipment guards, trims, panels shall be replaced after inspection and cleaning of the interior of equipment.

d. Equipment and structural “overheads” such as lights, pipes, beams, vent grids, etc., shall be scheduled for deep cleaning according to the Master Cleaning Schedule to prevent the development of insects or mold or accumulation of foreign matter.

2. Daily “Housekeeping or Cosmetic Cleaning” shall be assigned to the appropriate departments and shall be undertaken to ensure work and support areas are maintained during normal working hours. All such operations should be undertaken in a manner to prevent contamination.

Hot water use for cosmetic cleaning in wet production areas must be restricted and shall be done in such a way as to not contaminate raw materials, work-in-progress or production equipment with water droplets, mist, or direct contact.

3. Maintenance Cleaning:

a. Non-sealed electrical panels and boxes shall be cleaned and/or inspected every four weeks.

b. Maintenance mess and debris created during repairs or alterations shall be promptly removed. Emphasis shall be given to requiring a full accounting of nuts, bolts, washers, wire pieces, tape, welding rods, and other small items that could contaminate the product.
c. Grease smears and excess lubricant shall be promptly removed from equipment.

d. Only clean tools and wipers shall be used on product zones. Maintenance personnel shall observe proper hygienic practices when working on product zones or similar equipment. The use of cleaning utensils that can leave debris behind on product zones or areas shall be prohibited unless absolutely necessary, in which case inspection should occur after their use to ensure that no debris remains that could contaminate the product. This includes the use of wire brushes, sponges, scrub pads, etc.

e. Forklifts, hand jacks, and similar equipment should be scheduled for preventative maintenance and cleaning.

F. Equipment and Utensil Cleaning:

1. Food-contact surfaces and utensils shall be cleaned on a regular basis and as often as necessary to eliminate food residue and maintain a good appearance. Food-contact surfaces and machinery that require sanitizing shall be cleaned, sanitized, and tested for adequate destruction of pathogenic microorganisms. Non-food contact surfaces should also be cleaned on a regular basis and as often as necessary to eliminate product residue and maintain a good appearance.

2. To prevent microbial contamination, equipment and utensils shall be cleaned and sanitized on a predetermined schedule.

3. Utensils and intermediate containers shall be washed between uses, if appropriate (or as needed), and stored in an inverted position off the floor.

4. Pans, trays, or other main product zones shall be cleaned frequently enough to prevent carbon particles
from being transferred to products. Pans shall be stored in an inverted position to prevent potential adulteration of product.

5. Sanitary trays and dollies shall be cleaned and maintained in such a way as to prevent product adulteration.

6. Separate and distinct cleaning utensils shall be utilized for cleaning food-contact surfaces (product zones) and structural cleaning (product areas). At no time shall cleaning utensils used to clean rest rooms, toilet fixtures, or floor drains be used for any other cleaning purpose. Proper identification (by color coding) and segregation of each classification of cleaning utensil shall be maintained. All cleaning utensils shall be cleaned after use and properly stored.
Conditions for Unsatisfactory Rating

Per AIB Standards, an Unsatisfactory rating will be assigned when an item or items during the audit represents a violation of the following types:

I. If an imminent food safety hazard exists.

II. If food safety programs are nonexistent or deficient in such a way that they do not comply with the GMPs.

III. If food is adulterated such that:
   a. It bears or contains an added poisonous or deleterious substance;
   b. It consists in whole or in part of any filth, putrid, or decomposed substances, or if it is otherwise unfit for use as food;
   c. It has been prepared, packed, or held under insanitary conditions, whereby, it may have been contaminated with filth, or whereby, it may have been rendered injurious to health.

IV. If a violation of the Good Manufacturing Practices (GMPs) is noted that is an imminent food safety risk.

V. If a violation of local or national pesticide regulations is noted, that would represent a significant departure from the regulations or would cause an imminent food safety risk.

Examples of a few conditions most commonly found which will require an unsatisfactory rating assignment have been listed below. The following only represent examples of conditions for unsatisfactory rating assignments and are by no means inclusive. Similar items not specifically stated will be dealt with by the auditor in view of existing conditions and are always subject to review by AIB International headquarters personnel.
1. Microbes
   a. The presence of extensive amounts of mold either on or within proximity to the main product zones, jeopardizing product integrity.
   b. Holding temperatures (refrigerators or coolers) in excess of 40°F (4°C) for microbiologically sensitive ingredients or products.
   c. Open sores or boils on employees who have direct contact with product, ingredients, or product zones.

2. Foreign Matter
   a. Torn liquid receiving strainer.
   b. Pesticides used inconsistently with labeled directions.
   c. Flaking paint or rust in main product zone where product contamination is likely.

3. Insects
   a. Ingredients that are internally infested.
   b. Widespread infestation in overheads above sensitive or exposed ingredients or product zones.
   c. Infestations of equipment where product adulteration is likely.
   d. Houseflies or fruit flies in excessive numbers with little control provided.
   e. Any cockroach activity on or in a product zone.

4. Rodents
   b. Evidence of rodent excreta or gnawing on raw materials or finished product.
   c. Decomposed rodent.

5. Birds
   a. Birds residing in processing areas or warehouses.
   b. Bird excreta on product zones, raw materials, or finished product.
# RATING ANALYSIS RECAP

Report #: ___________________________  Review Person: ___________________________
Location: ___________________________  Date: _________________________________

<table>
<thead>
<tr>
<th>Category</th>
<th>Report Deficiencies by Item #</th>
<th>(160-175)**</th>
<th>(140-155) Serious Items</th>
<th>(&lt;140) Unsatisfactory</th>
<th>Reviewer's Score</th>
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AP - Adequacy of Food Safety Program  **Potential Hazard/Improvement Needed Items**
PC - Pest Control
OP - Operational Methods and Personnel Practices
MS - Maintenance for Food Safety
CP - Cleaning Practices

TOTAL SCORE
# MASTER CLEANING SCHEDULE
(TASKS OTHER THAN DAILY)

DATES/ INSERT DATES, WEEKS BY NUMBER, OR PERIODS

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<th>JOB DESCRIPTION</th>
<th>FREQUENCY</th>
<th>ASSIGNED TO</th>
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# INCOMING INGREDIENT EXAMINATION RECORD

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<th>Date</th>
<th># of Car/Carrier</th>
<th>Product</th>
<th>Lot Number</th>
<th>Amount</th>
<th># of Broken Bags</th>
<th># of Insects in Carrier</th>
<th>Rodent Excreta Found</th>
<th>Temp. of Carrier</th>
<th>Comments</th>
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</table>
# Pesticide Usage Log

List all restricted use pesticides purchased according to trade name and EPA registration number on the back.

<table>
<thead>
<tr>
<th>Name of certified applicator</th>
<th>Address</th>
<th>Certification ID No</th>
</tr>
</thead>
</table>

*List separately below all pesticides used*

<table>
<thead>
<tr>
<th>Name of Pesticide Used/EPA Registration No.</th>
<th>Target Organism</th>
<th>Application Data</th>
<th>Date(s) and Time(s) Treated</th>
<th>Applicator’s Signature</th>
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RESTRICTED PESTICIDE PURCHASE RECORD

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<th>DATE PURCHASED</th>
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<th>EPA PRODUCT REGISTRATION NO.</th>
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# RECORD OF BULK FLOUR SIFTER TAILINGS EXAMINATION

<table>
<thead>
<tr>
<th>Car or Lot #</th>
<th>Date Received</th>
<th>Bin #</th>
<th>Date Tailings Checked</th>
<th>Checker</th>
<th>Findings</th>
<th>Bin #</th>
<th>Date Cleaned</th>
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# Daily Sifter Tailing or Ingredient Strainer Examination Record

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<th>Date</th>
<th>Location of Ingredient Strainer or Sifter</th>
<th>Type and Orifice Opening Size</th>
<th>Type of Ingredient Strained</th>
<th>Time Examined</th>
<th>Condition of Strainer &amp; Screens</th>
<th>Frequency of Cleaning</th>
<th>Description of Insects or Foreign Material Found and Remarks</th>
<th>Examining Employee's Signature</th>
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