Proactive Approaches for Food Safety

Bhadriraju Subramanyam, PhD
Professor
Department of Grain Science & Industry
Kansas State University
Manhattan, KS 66506
www.oznet.ksu.edu/grsc_subi

Rapid Methods & Automation in Microbiology October 15-17, 2008 ANGRAU, Rajendranagar, Hyderabad

2006 National Food Safety and Standards Act

- Will be implemented next year
- Have you read the document?
- How will it impact your company or the way you do things?
- Are there areas you need to address within your company to comply?
- Examine your quality management systems

- Government-based inspection systems will not assure food safety
 - FDA in US inspects only 1% of the total food
 - A good-self inspection program is necessary
 - Focus on effective inspections rather than on more inspections
 - Use your four senses during inspection
 - Sight
 - Touch
 - Hearing
 - Smell

- Examine current trends in food consumption
 - The frequency of any type of infection is based on food trends and eating habits

- Your basic programs should be fundamentally strong
 - GMPs and HACCP
 - Not only at the processing facility but also along the farm to table continuum

- Analyze food safety risks with your product and allocate resources and systems to manage the risks (prioritize risks)
 - Apply risk-based criteria to regulatory and inspection efforts

- Design and implement better food safety systems
 - ISO 22000:2005 international standard
 - Evolution beyond HACCP (5 + 7 steps)
 - All standards followed should be auditable!
 - Auditing vs inspection
 - Work on the process not the product (conduct gap analysis)

- Educate all who handle and consume your product
 - Food safety does not stop at your company
 - Food safety is a farm to table concept

- Expand partnerships
 - Government alone cannot guarantee food safety
 - Establish public-private-government partnerships

- Follow international food safety standards
 - Prevents duplication of effort
 - Enhances sharing of information
 - Reduces multiple audits and inspections

- Enhance economic incentives to embrace food safety
 - Cost of recalls is expensive

- Insist on supplier quality performance
 - Melamine in pet food
 - Melamine in milk
 - Melamine in Rabbit candy