ASTA 2014 Annual Meeting and Exhibits

Welcome

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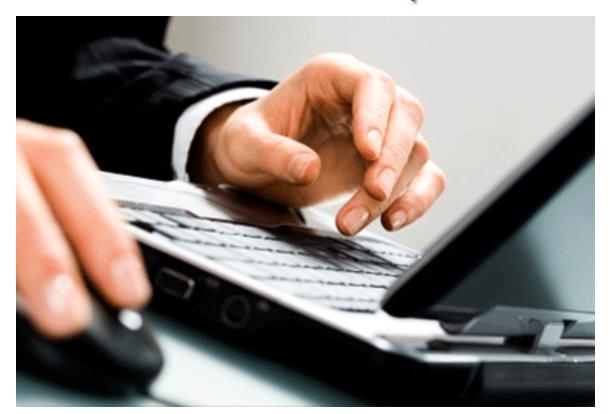
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ASTA 2014 Annual Meeting and Exhibits



St. Regis Monarch Beach Resort Dana Point, CA



From HACCP to HARPC – What's Best-In-Class and How to Get There

Debby Newslow, President D L Newslow & Associates, Inc.

Barbara Levin, SVP & Co-Founder SafetyChain Software

ASTA April 28, 2014



Automate, Streamline & Improve FSQA™

Agenda

- Overview HARPC proposed rule
- Comparing HACCP to HARPC
- HARPC and GFSI
- Benefits of adopting HARPC today
- CCPs & PRPs key differentiators
- How to get from HACCP to HARPC
- How technology can support a robust program while creating ROI





Definitions

HARPC:

Hazard Analysis Risk-based Preventive Controls

HACCP:

Hazard Analysis Critical Control Points







What do you consider "preventive" in your operation?

Status of the HACCP Program - CCPs?

The role of your PRP programs?

Let's identify 15 PRP programs that are preventive





FSMA FDA Food Safety Modernization Act of 2011



http://www.fda.gov/food/foodsafety/fsma/ucm247548.htm











Comparison of Laws

Old Law

- Reactive
- U.S.-centric
- Focused toward on-market products

New Law

- Proactive
- Global Implications
- More PROCESS/PREVENTION oriented
 - Early identification of risk
 - Supplier emphasis
 - Increased communication





FSMA = Enhanced FDA Enforcement Power

- Increased Access to Records
- Facility Registration (Strengthened)
 - > Biennial Renewal & Suspension Authority
- Hazard Analysis Risk-Based Preventive Controls (HARPC) Plan
- Authority to Collect Fees
 - For Re-inspection And Food Recall
- Food Transportation (pending)
- Intentional Adulteration (pending)
- Mandatory Food Recall Authority
- Targeting of Inspection Resources Based Upon Risk





Overview of HARPC Rule

- FDA Food Safety Modernization Act (FSMA) of 2011
 - Build a new food safety system based upon prevention (FDA)
- FSMA Sec. 103:
 - Hazard Analysis and Risk Based Preventative Controls (HARPC)
 - Facilities required to implement a written HARPC plan





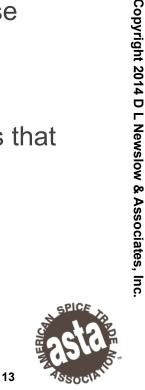


Elements Of The HARPC Plan as Specified in FSMA Sec. 103



- Evaluating the hazards that could affect food safety
- Specifying the preventive steps, or controls, that will be put in place to "significantly" minimize or prevent the hazards
- Specifying how the facility will monitor the effectiveness of these controls to ensure that they are working
- Maintaining routine records of the monitoring
- Specifying what actions the facility will take to correct problems that arise
- Re-analysis requirements





FDA Proposed HARPC Rule - 2013

- Current Good Manufacturing Practice and Hazard Analysis and Risk- Based Preventive Controls for Human Food, Proposed Rule [78FR11 (January 16, 2013), Pages 3646-3824]
 - http://www.gpo.gov/fdsys/pkg/FR-2013-01-16/html/ 2013-00125.htm
 - Comment Period Closed in November 2013
 - Had been expanded from September 2013





General Aspects of Proposed Rule

Proposed Provisions of HARPC Plan

Proposed Revision Of The Existing Current Good Manufacturing Practices (CGMPs) (21 CFR Part 110)

> Part 117, "Current Good Manufacturing Practice And Hazard Analysis And Risk-based Preventive Controls For Human Food."





HARPC Plan – Additional Comments

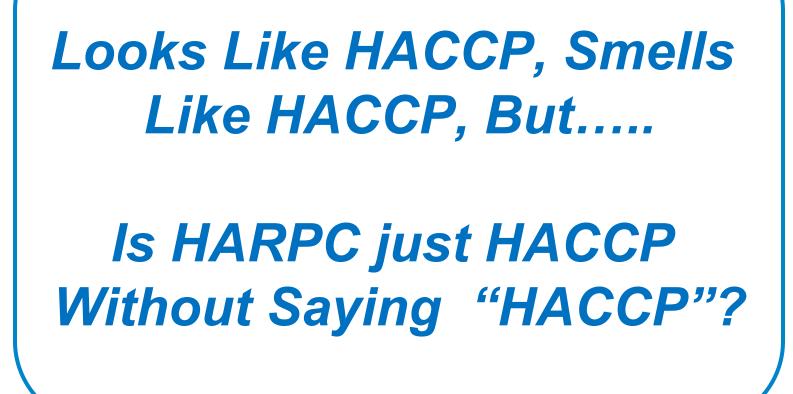
- HARPC Intended to be Science and Risk-Based
 - Only where necessary to prevent hazards to public health
 - Not required (or may have modified requirements) for certain low risk activities

HARPC Intended to Be Flexible

- Facilities may develop preventive controls that fit their products and operations, as long as they are adequate
 - To significantly minimize or prevent all food safety hazards that are reasonably likely to occur



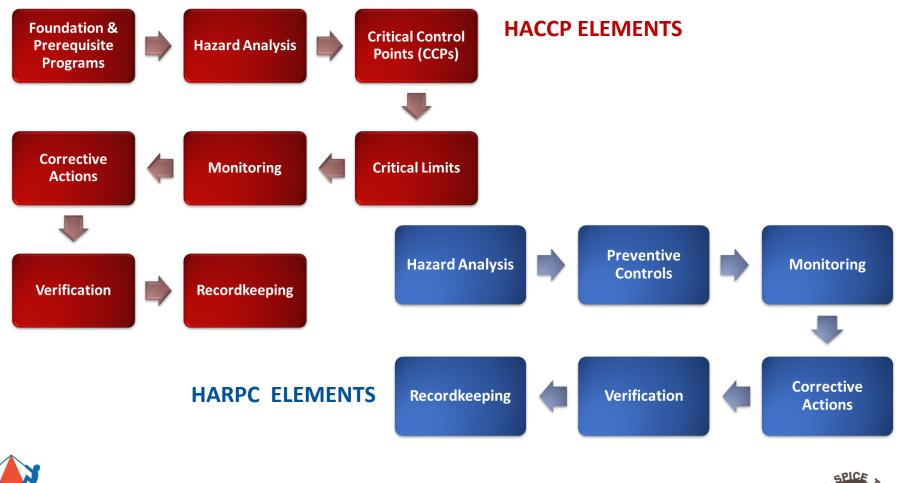








If it Looks Like HACCP ... Smells Like HACCP ... What's the Difference?







Comparison HARPC & HACCP – Who Implements?

HACCP	HARPC- Proposed
HACCP Team -	"Qualified Individual" -
Key Individuals Trained or Otherwise Qualified by Experience	Specialized Training in Implementing Risk-based Preventive Controls or Qualified by Experience
FDA HACCP "Recognized Curriculum"	"FDA Approved Curriculum"
Training Documented	Training Documented





Comparison HARPC & HACCP – Hazard Analysis

HACCP	HARPC– Proposed
Elements -	<u>Elements</u> -
Hazard Identification Hazard Evaluation (Risk Assessment)	Hazard Identification Hazard Evaluation (Risk Assessment)
Hazards-	Hazards-
Biological Chemical Physical	Biological Chemical Physical Allergens Radiological





Hazard Analysis – Under Proposed HARPC Rule



- Hazards
 - Allergens and Radiological Agents Listed as Separate Categories
 - These would be under "Chemical" in HACCP
- "Risk-based" and "Risk Assessment"
 - Considerable Discussion in the Proposed Rule





HACCP Hazard Analysis

- Importance and Emphasis of Risk Assessment in Hazard Analysis
 - Considerable Variation in Food Industry HACCP Plans
 - Many HACCP Plans Stop at Hazard Identification
 - Has Had More Emphasis in Codex HACCP Than US

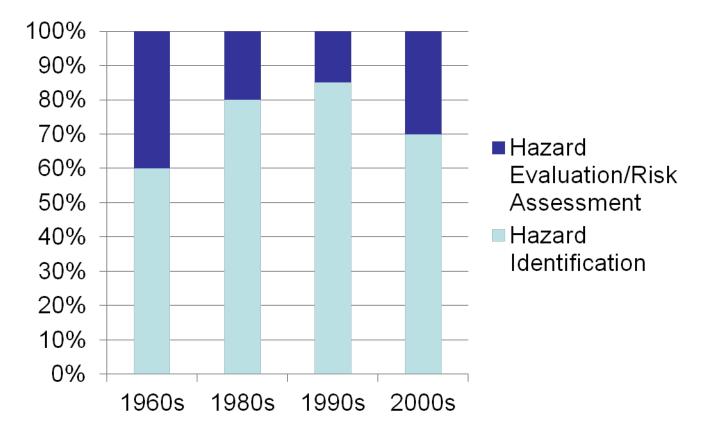




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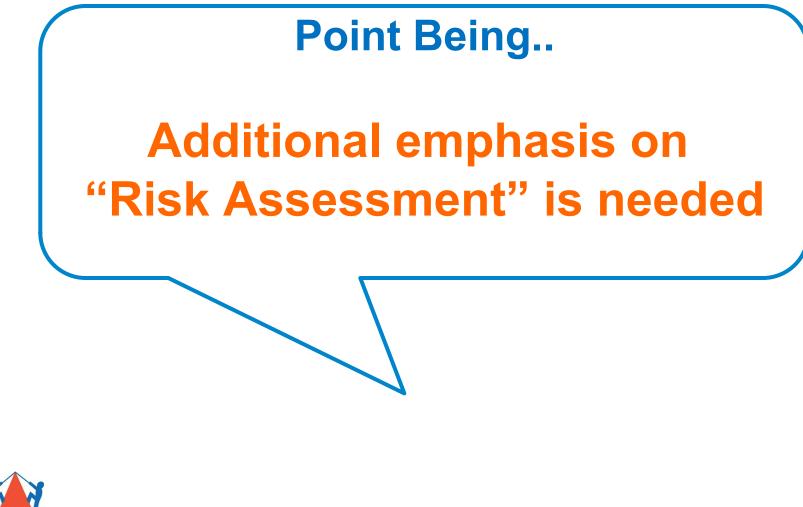
Risk Assessment in HACCP Hazard Analysis – Historical Look





Note: Estimates based upon opinion of an aging professor









HARPC Preventive Controls – Proposed

- Must be Identified and Implemented
 > Includes Both CCPs and Non-CCPs
- May Include (where appropriate)
 - Process Controls
 - Food Allergen Controls
 - Sanitation Controls
 - A Recall Plan







Discussion Note in Proposed Rule

- FDA Recognizes Supplier Verification Programs As "Risk Based" Preventive Controls
 - Seeking Comments





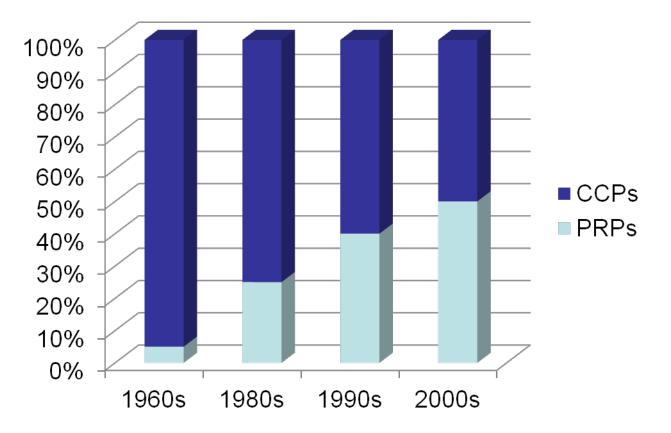


HACCP Control Measures ... Prerequisite Programs (PRPs) vs. Critical Control Points (CCPs), The Time **Honored Debate**





Relative Emphasis of HACCP PRPs and CCPs – Historical Look





<u>Note</u>: Relative values are subjective estimates based upon opinion of an aging professor.



HACCP Sanitation Programs

- Written SSOPs
- FDA HACCP Shall Include SSOPs for
 - Water Safety,
 - Food Contact Surfaces,
 - Prevention Of Cross Contamination,
 - Maintenance Of Hand-washing & Toilet,
 - Protection From Contamination,
 - Proper Labeling, Storage, & Use Of Toxic Materials,
 - Control Of Employee Health,
 - Exclusion Of Pests







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HARPC Sanitation Programs -Proposed

• Written SSOPs For:

- Procedures For The Cleanliness Of Food-contact Surfaces, Including Food-contact Surfaces Of Utensils And Equipment.
- Environmental Programs for Pathogens
 - Listeria Monocytogenes & Salmonella
 - Allergens
- Prevention Of Cross-contamination
- Calibration Of Equipment Used To Monitor Or Verify Preventive Control Parameters





Control Measures – Summary

HACCP	HARPC – Proposed
Critical Control Points (CCPs)	Preventive Controls
Based Upon Decision Tree Must Have Definable and Realistic Critical Limit Which can be Monitored and Verified	Include CCPs and "Non- CCPs" Include Sanitation Programs (SSOPs)
<u> Prerequisite Programs (PRPs)</u>	
Required as Foundation to HACCP Include Sanitation Programs (SSOPs) May be used to Control Hazards when Impractical to	
Identify as CCP	





Critical Limits

НАССР	HARPC– Proposed
<u>CCPs</u> -	Preventive Controls -
Critical Limit Required for Each CCP Identified	Not Required for All Preventive Controls
Prerequisite Programs (PRPs)-	
Varied Critical Limit Not Always Definable	





Monitoring

HARPC– Proposed
Preventive Controls -
Required
To Provide Assurance That Preventive Controls Are Consistently Performed





Corrective Actions

HACCP	HARPC- Proposed
<u>CCPs</u> -	Preventive Controls -
When Deviation From a Critical Limit	Required Regardless of Whether Critical Limit Defined or Not
Correct Problem and Minimize Reoccurrence	Correct Problem and Minimize Reoccurrence
Prevent Unsafe Product From Entering Market	Prevent Unsafe Product From Entering Market
Prerequisite Programs (PRPs)-	
Varied	
If Controlling Hazard Should Have Appropriate Corrective Actions	
	EP





Proposed HARPC Corrective Actions – Additional Comments

If Corrective Action Not Identified, Or If Controls Found To Be Ineffective

Re-evaluate Food Safety Plan And Modify As Needed Copyright 2014 D L Newslow & Associates, Inc.





Verification

НАССР	HARPC– Proposed
Verification	<u>Verification</u>
To Assure That System is Operating as Planned	To Assure Consistent Implementation of Food Safety Plan
Includes <u>Validation</u> to Assure That Identified Hazards are Being Controlled	May Include <u>Validation</u>
What to Verify	What to Verify
All CCP Activities	Effectiveness of Preventive Controls
HACCP Plan/System	Frequency Varied With Activity
PRPs as Appropriate	
Frequency Varied With Activity	





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НАССР	HARPC (Proposed)
Frequency	<u>Frequency</u>
When Process System Significantly Changes	When Process System Significantly Changes
Whenever Deviation Occurs	
At Least Annually	Every 3 Years





HARPC Verification – Discussion in Proposed Rule

- FDA Seeking Comment On Potential Verification Activities Including:
 - Environmental Testing Programs
 - Customer And Other Complaints
 - Mock Recall





Recordkeeping

SafetyChain

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НАССР	HARPC– Proposed
Hazard Analysis	Hazard Analysis
Must Have Documentation	Documentation Required
<u>CCPs</u> -	Preventive Controls -
CCPs, Critical Limits, Monitoring, Corrective Actions, Verification Documentation	Preventive Controls, Monitoring, Corrective Actions, Verification Documentation Required
Prerequisite Programs (PRPs)-	HARPC Plan
Documentation Varied Documentation as Deemed Appropriate and Necessary	Documentation Required
HACCP Plan & HACCP System	
Must Have Documentation	
	SP



Proposed HARPC Documentation

- Must be Maintained for 2 years
 > 6 months available on site
- May be Electronic
 - See 21CFR11







Proposed HARPC Plan – Additional Comments

- More Emphasis on HACCP-Like Prerequisite Programs, Including:
 - Monitoring
 - Corrective Actions
 - Verification
 - Documentation

May Have More Emphasis on (Still Pending)

- Environmental Sanitation For Microbiological and Allergen Control
- Recall and Traceback
- Supplier Verification Programs





Who Has A Crystal Ball?







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Will My Current HACCP Plan Be In Compliance? It Depends...

- How Strong Is Your Hazard Analysis?
- How Strong Is Your Risk Assessment?
- Is It Based Upon Current Science?
- How Strong Are Your Prerequisite Programs?
- How Strong Is Your Verification?
- How Good Are Your Records?







Let's discuss

What are you doing now that is preventive?



What could you do better? How could you do it better?

What is your biggest concern when discussing "preventive controls"?





HARPC and Third Party Food Safety Programs?

- Brief General Discussion of Global Food Safety Initiatives in Proposed Rule (Appendix Section II)
- Will PRPs Under These Programs Comply?





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We'll Discuss

- Compliance concerns
- Food Safety Chain Management System (FSCMS) automation
- Support for 6 key components of FSMA Food Safety Plan
- ROI







Key Concerns – HARPC & Overall FSMA Compliance

- Resources
- Making sure programs are current & followed
- Trending, risk assessment
- Documentation, documentation, documentation
- Audits, audits, audits





Answer? Automation.











Automating the Key Components of a

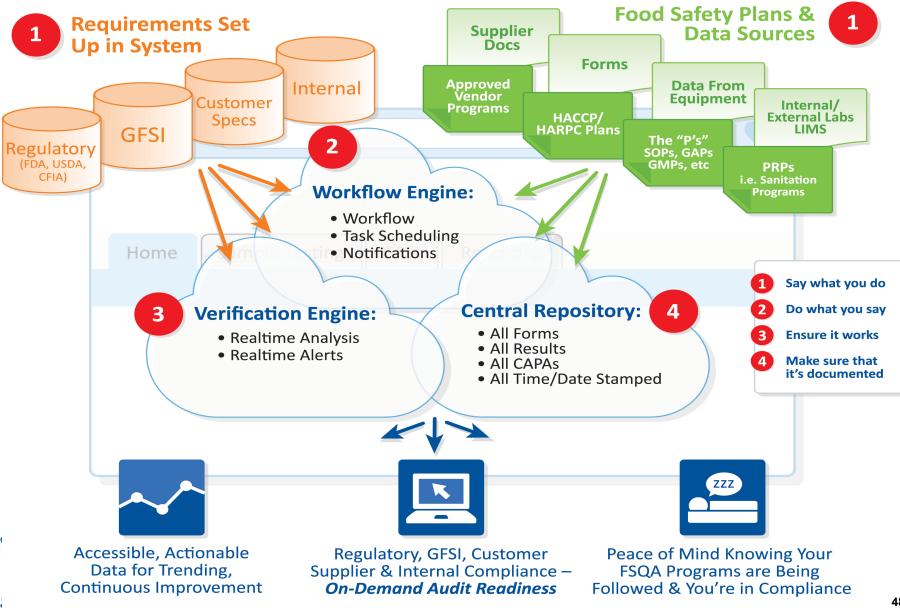
Food Safety Chain Management System (FSCMS) – Automate, Streamline & Improve FSQA

- Designed to help enforce and document Food Safety & Quality Assurance at all points along a company's supply chain ... for what comes in, what you do with it, and where it's going next
- Helps ensure FSQA program workflow, processes, documentation
- Creates central repository FSQA data for trending, assessments, reporting, audit readiness
- Saves time, saves money and creates operational efficiencies that help your members and their supply chain participants:
 - Enforce safety & quality compliance
 - Regulatory (USDA, FDA/FSMA, CFIA), GFSI, internal programs, customer
 - Eliminate manual processes and errors
 - Prevent withdrawals, rejections and recalls
 - **Prepare** for audits "on-demand" at the click of a mouse
 - **Protect** market value and brand





How Does an FSCMS Work?

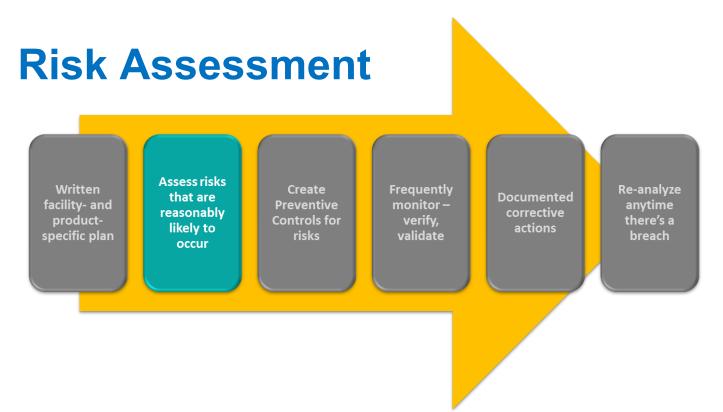




- Unlimited number of specifications, Prerequisite Programs (PRPs), Preventive Controls (PC)
- Can be identified by product/plant
- Task scheduler with auto-alerts
- Supplier compliance







- All FSQA test results, COAs, supplier documentation accessible from central repository
- Realtime analysis, trending and alerts helps identify risks







- Set up all PRPs such as sanitation, allergen control, preventive maintenance, training, etc.
- Benefit from same auto-scheduling, realtime • assessment and alerts





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Monitor, Verify, Validate

Written facility- and productspecific plan Assess risks that are reasonably likely to occur

Frequently monitor verify. validate

Documented corrective actions

Re-analyze

anytime

there's a

breach

Mobile data capture and assessment – field/plant

- Information from suppliers, labs, equipment even during transportation
- Again, task scheduler ensures monitoring is verified
- Realtime analysis against specifications

Create

Preventive

Controls for

risks

Realtime alerts on deficiencies and omissions



SafetvChair

OFTWARF

All time/date stamped in central repository for reporting



Inc



Documented Corrective / Preventive Actions



- Alerts ensure that CAPAs identified at earliest point possible
- Before/after digital photos
- And because all data is in the central repository, respond on-demand to FDA, 3rd party, customer inquiries and inspections



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SOFTWARE



Re-Analysis and Action



- Upstream/downstream/internal visibility
- Traceability, root cause analysis
- Additionally:

SOFTWARE

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- Benchmarking
- Scorecards
- Continuous improvement
- Improve cost of goods made



GFSI Automation

- Automate management of all documents, records
 - Forms, PRPs, SOPs, more
- Electronically ensure document and version control
- Access, organize all required audit programs, forms, records "on-demand"
- Automatically schedule required tasks
 - Auto-notifications, escalating alerts for non-completion or nonconforming results
- Realtime data dashboards for trending, continuous improvement
- Automate approved vendor programs







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Bottom-Line ROI

- Time and labor
- Reduce cost of non-conformance
- Reporting and analysis
- Audit readiness
- Risk mitigation







For More Information

Debby Newslow

President, D.L. Newslow & Associates

Debby@newslow.com

(407) 290-2754

www.newslow.com

Barbara Levin

SVP & Co-Founder, SafetyChain Software

BLevin@safetychain.com

(415) 233-9478

www.safetychain.com



