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Food Security



Practical Solutions for Protecting Food Companies Against BioTerrorism Attacks

Ray Pettit Enterprises

American Society of Sugar Beet Technologists March 3, 2005 Palm Springs



Reframe Your View of Security

Food Security is NOT

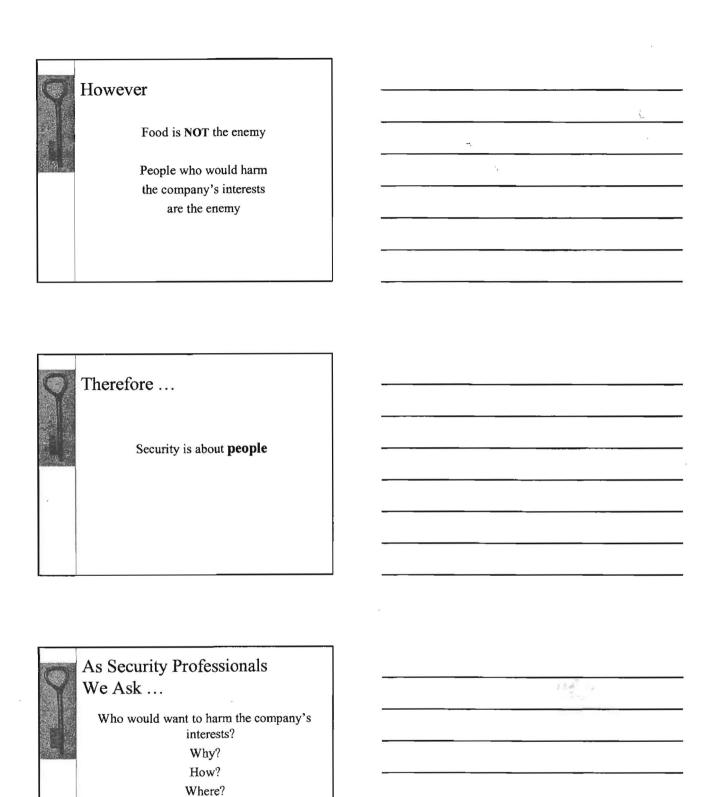
an extension of

Food Safety



Usually Framed As ..

- ❖ Food Safety = Prevention of accidental contamination
- ❖ Food Security = Prevention of malicious contamination



When?
What can we do to prevent **them**from conducting any type of attack?



More Enlightened Way to Look at Security

Which security measures
historically have proven
to be the MOST effective
at deterring
the most likely attack scenarios
which could cause the greatest harm
to the company?

How are you going to know them?



Current Degree of Readiness Across Government and the Industry

Considerable confusion about protecting

Confusing efforts with results

Unwarranted sense of readiness

Creating a self-fulfilling prophecy



View Agency Regulations / Standards with a Different Security Perspective

Fundamental difference between "prevention" and "response"

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Examples of agencies referring to "prevention" but really meaning "response"



Examples of This Confusion

- "We're developing the new medicines and vaccines to protect our citizens from disease or bioterrorism" (12/3/04)
- "The government is creating a new generation of technologies to guard against terror attacks on our food .. supply" (10/7/04)
- "New rules to protect the nation from a biological terrorist attack" (12/7/04)
- "Publication of this record-keeping rule represents a milestone in U.S. food safety and security. We have a lot of work yet to do, but our nation is now more prepared than ever before to protect the public against threats to the food supply" (12/6/04)
- "... the risk of a terror attack on the food supply is low because of steps by the government to tighten its food security web" (12/6/04)



The Focus Is On

containment of the effects of an attack and protecting the public

after an attack ...

not on prevention



Which of the Following Regulations Would Actually Prevent An Incident?

Registration
Advance notice
Increased detention authority
Increased record keeping requirements



Is There Really a Terrorist "Threat" to Contaminate our Food?

- ❖ Because they "could" does not mean they will
- ❖ Difference between being vulnerable and a threat
- ❖ Being vulnerable: An attack COULD happen
- ❖ A threat: A specific engagement HAS occurred



FDA Security Guidelines

- ♣ 111 specific security standards
- No sense of which are most important
- No sense of type of attacker / methodologies
- "Good Security Practice" not identified
- Encyclopedia of "conventional wisdom"
- . Many are not helpful
- Some are unhelpful
- ❖ but ...
- They have been accepted as the industry standard
- Customer, associations, 3rd party food safety audit checklists rephrased collections



Array of Agency Suggested Security Standards

- **❖**FDA
- *****CTPAT
- ❖Department of Agriculture
- *****FSIS
- *****DOT
- ❖etc.



9/11 Commission Report

"The private sector remains largely unprepared for a terrorist attack.

".. the lack of a widely embraced private sector preparedness standard (is) a principal contributing factor to this lack of preparedness."



Two Recent GAO Audits

Objective:

Determine why food security
has not been more widely implemented
across the industry

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	GAO Audit Methodology	_			3445 A. 16 A.		
	❖Interviewed leading association officials	_		× 1186	-		١.
	❖Visited / audited SIX processing facilities	_		<u> </u>			¥
	❖Talked with agency food safety inspectors	_					
	Findings						
	 Association officials: Surveys showed much has been done 	_					
	 Industry leaders do NOT want regulations Therefore: They are doing "a lot" 						
a a	 ❖SIX audits: ❖ Found some things have been implemented 	_					
	 ❖Agency inspectors: ❖ Not trained to even discuss security 	_					
L	Not trained to even discuss security			_		_	
(6:20)	GAO Recommendations		_				
	Review statutory authority with congress	_					
	Train inspectors to be able to discuss	_					
	security with facility managers	_					



Problems With the GAO Audits

- ❖Confused effort with results
- Of course industry does not want to be regulated
- Association officials produced survey results which demonstrate that much has been done ...
- However, much of what has been done has had very little deterrent effect
- ❖Did not audit the effectiveness of security



Homeland Security Secretary Tom Ridge

January 25, 2005

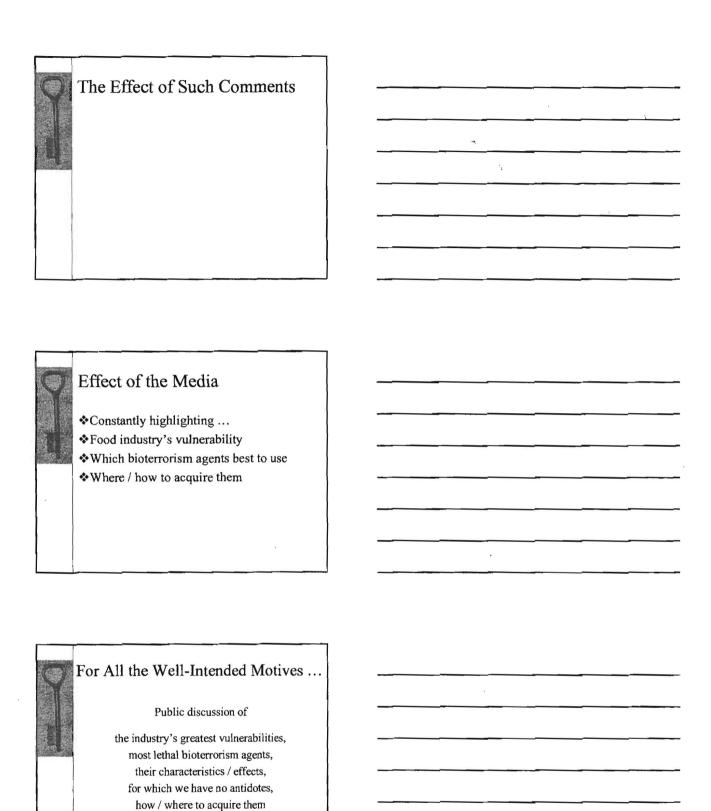
- Private industries have made some very significant investments to tighten security ..."
- "Critics say .. companies .. haven't done nearly enough to protect against an attack that could kill and injure tens of thousands of people."
- "company leaders know that if you don't do it in the foreseeable future, you'll be told to do it"



Was Optimistic about the New FSIS Standards

Wanted to develop
a set of standards
that would be
more credible,
more industry friendly,
and actually be implemented.





serve to ...



attract, encourage, enlighten, educate, inspire, taunt

the enemy



"Human Safety Trial To Start On Vaccine For Deadly Toxin"

- * ".. as little as 500 micrograms of ricin about what fits on the head of a pin – is enough to kill an adult. Lethal doses depend on how the poison is delivered – by powder, mist, pellet or dissolved in water.
- "The poison can be made from waste left from processing castor beans."
- "Because castor beans are easy to obtain and the poison remains potent despite exposure to extreme temperatures, government officials worry that it could become a tool of terrorists.
- "Unless treated quickly, there is no antidote. Symptoms arrive late and can be confused with those of other illnesses."

December 1, 2004



Justification

"THEY already know all about these things."

Maybe some do
but
there are many others listening
and learning



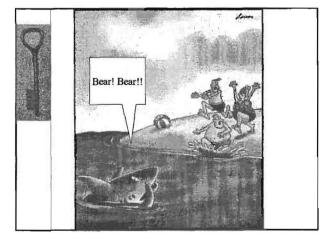
Reuters: July 28, 2004 – Irvine, CA Gerber Baby Food Laced with Ricin

- "Two jars of Gerber baby food sold in Southern California tested positive for traces of the highly toxic poison ricin on Wednesday, prompting police to warn parents to check for tampering before serving prepared food to their children."
- ❖ First incident occurred May 31st
- Second incident occurred June 16th
 - * Why ricin?
 - Why no public warning until July 28th?



Effect of Open Discussions / Coverage

- What are the effects of pointing out our vulnerabilities / potency of bioterrorism agents / amount of damage possible / best possible attack scenarios?
- ❖ Encourages ...
 - *deranged members of society, and
 - disgruntled employees
 - *to do the same thing the terrorists could do
- *Are we sending the right message?



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Will Contend with a Variety of Customer Food Security Audits

- ❖Each reflects their own view of the FDA guidelines and standards
- Many are developed by food safety people, not security experts
- Select security measures they believe are most important ("conventional wisdom")
- Now also add weighting factors to the questions



Food Security Audits and Inspections

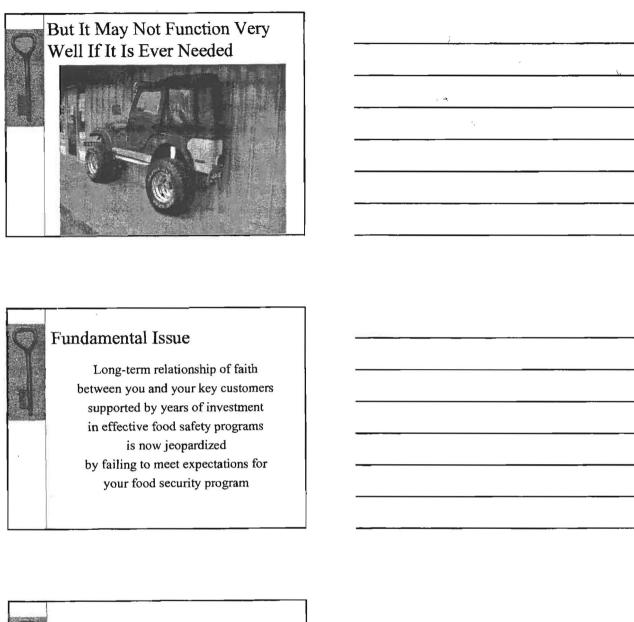
Are being conducted by food safety people, not security professionals.

Implications ...

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	Adequate to the Casual Observer
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Their Message ..

If we don't like your security program we are not going to buy from you any more

One major customer compares food security audit scores between its competing suppliers



However ...

many such customer audits
do not reflect, emphasize or give credit for
Good Security Practice
and the most important measures
to deter most likely attack scenarios



Developed ...

from a food safety / HACCP perspective but remember security is a very different discipline

> It's about people, not about food



Food Security Audit Sample Checklist Expectations

- "Is access to the grounds of the facility restricted through the use of barriers, i.e. fences, walls, etc.?.. Is there a means to control vehicle access onto the property?.. If gates are used, are they locked when not in use?" (ConAgra)
- "Effective measures are taken to restrict unauthorized access to the grounds (intact security fencing, gates closed and locked, surveillance by camera and / or security guards, adequate lighting, company issued access cards, security patrols, etc." (WalMart)
- Improve onsite security programs such as restricting rights of entry and exit, locking up storage bulk ingredient containers and mounting video surveillance at important internal processing hubs. Provide metal or metal-clad doors on facilities." (McDonalds)
- "Is perimeter access protected with fencing or other appropriate deterrent?" (Yum! Brands)

Major Food Company's Food Security Audit Checklist

- "Ensure that there are controls in place to verify the identity of new personnel joining the company, temporary employees and contractors"
- "All new employees should undergo induction training which should cover site and product security."
- "Is access to the site restricted to employees only, and are there entry restrictions to all manufacturing & storage areas"
- "Are all visitors identifiable and checked by a security service on arrival and departure"
- "Are there surveillance cameras on site, covering both external and internal key production areas"



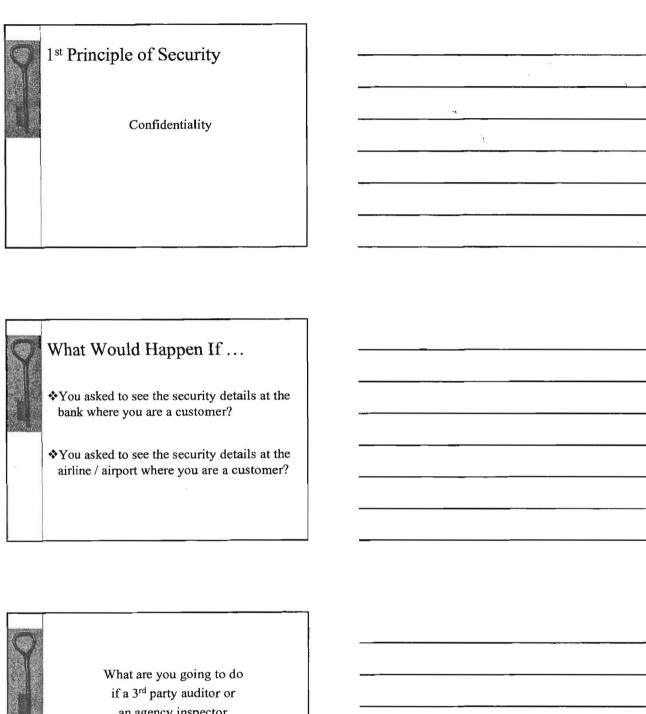
Not Reflected ...

- ❖ Different Risk Levels
- Practical realities / constraints of physical layout
- The fact that not all security measures work against all types of potential attackers
- Whether the expected measures would really be effective or not



Example of the Problem

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food security plan?



Conclusion

- ❖ Agencies going after least likely scenario with tools that would not work
- ❖ Modest, if any, contribution to prevention
- ❖ Misplaced faith in "conventional wisdom"
- Vast amounts of money being spent
- None going to help industry prepare
- Industry making many improvements, but do they produce an effective deterrent?



How Could the Agencies Get It So Wrong?

These agencies,
associations,
3rd party food safety auditing companies
are **not**security experts



Would Be Like Asking ASIS *

to develop standards for a food safety program

* American Society for Industrial Security



While the Official Focus is on a BioTerrorism Attack on the Food Industry ...

The far more likely thing to happen is an internal attack by a disgruntled employee



Disgruntled Employee

- Has access
- Has knowledge
- Has opportunity
- Media may encourage him
- External security program does not protect you against what he can do
- Do not give him a reason
- He CAN do it if he gets angry enough



Fortunately

- Good Security Practices are also available to defend against the internal attack scenario
- Training in threat assessment
- Intervene early with consistent discipline
- Need to add security considerations to human resources policies / procedures
- Intervention protocols for handling dangerous, threatening situations



My Recommendations

Calibrate Good Security Practice

Establish a commitment that "We secure to a higher standard"

Outline and begin implementing or improving a comprehensive, effective security program which also reflects the internal risk

Audit your own progress using an enlightened audit protocol

Meet with key customers to explain your commitment and review your suppliers & copackers

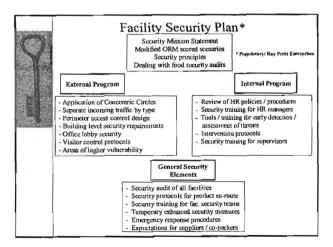


Management Must Make A Choice

Do you build a security program to try to meet the evolving collections of security expectations from customers / 3rd party food safety auditors?

OR

Do you implement an effective security program which reflects Good Security Practice which will actually work if needed?



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Haunting Questions

- Would it matter whether a terrorist or a disgruntled employee added the agent?
- ❖ Would we ever know?
- How would we know at which link in the food chain the agent was added?



We need a more enlightened approach



Security Consulting Services Available Ray Pettit Enterprises

- ❖ Practical Security Solutions
- * Facility Security Reviews
- Modified ORM Risk Assessments
- ❖ Security Team Training
- Protection Against Disgruntled Employees
- Security Conference for Suppliers
- Assistance with Threatening Situations



Ensure ...

- 1. Sound security measures being used
- 2. Maximize effective protection for the least possible cost
- 3. Your program will "work" if ever needed
- 4. Your suppliers' security reflects the same level of effectiveness



If you would like more information give me a business card after this session

Thank You

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