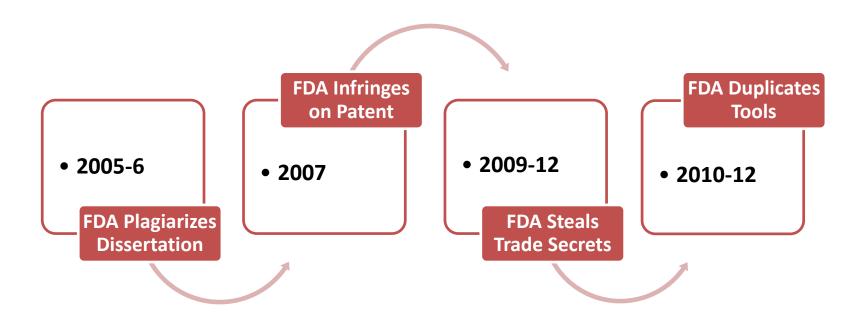
ENCLOSURE 1:

Plagiarism evaluation of Dr. Hnatio's 2006 doctoral dissertation and the subsequent 2007 FDA Food Protection Plan

FDA Plagiarism Timeline



8/30/2014

Fourteen Examples of Plagiarized Content in the Food and Drug Administration's (FDA) Food Protection Plan

Systems approach of prevention, intervention and response	8. Developing and testing the effectiveness of operational plans
A priori thinking and the consideration of threats and risks to prevent harm before an event occurs	9. Minimizing the consequences of adverse events
3. Scientific extrapolation of the extended order effects of adverse events ahead of time	10. Indicators and warnings and intelligence collection strategies
4. Increased focus on prevention	11. Application of science and information technology to identify vulnerabilities and determine the most effective countermeasures
5. Targeting areas of highest risk for attention	12. Determining and managing risk
6. Validating the effectiveness of prevention measures and reducing risk	13. Holistic view of complex systems
7. Earliest possible detection of adverse events to speed responses	14. Integrating safety and security 3

Food and Drug Administration (FDA)
Plagiarism of 2000-2006 Doctoral Dissertation Research

Plagiarisr	n of 2000-2006 Doctoral Dissertation Rese	earcn	
Complexity Systems I	Management Method®	FDA Food Protection P	lan
Plagiarized Content	Pages in Doctoral Research Dissertation	Plagiarized Pages in Food Protection Plar	
 Systems approach of prevention, validation [FDA uses the substitute term "intervention" for validation], and response 	9, 18, 39, 43, 45, 47, 49, 59, 64-66, 73, 75-76, 79, 80, 85-87, 94, 111-13, 117, 123, 126-8, 133, 155, 158, 159, 163, 164, 170,-71, 174,-76, 178-79, 182-86, 188-90, 192, 196, 199, 200, 203-04, , 211-12, 215, 217-18, 224, 227, 229, 232-33, 237	1-4, 6-7, 11, 13, 14-24, 26	-29, 32
Representative Quotation from 2000-2006 Doctoral Research Dissertation		Page	
	tured along a time continuum that begins of quentially through deterrence, prevention making recovery."	•	85
Samples of Plagiarize	d Quotations from 2007 FDA Food Protec	tion Plan	Page
	ood Protection Plan, encompasses three common intervention for validation] and respons	•	6
"Along with prevention and intervention and more focused response is needed or	[FDA uses the substitute term of intervent nce a problem is detected."	ion for validation], faster	14
"Prevention is the first essential step for	an effective, proactive food safety and def	ense plan."	17
"Expand the Understanding and Use of Effective Mitigation Measures"		₄ 17	

Complexity Systems Management Method®		FDA Food Protection F	Plan
Plagiarized Content	Pages in Doctoral Research Dissertation	Plagiarized Pages ir Food Protection Pla	
A priori thinking and the consideration of threats and risks to prevent harm before an event occurs	47, 76, 80, 85-86, 90, 93, 97, 103, 113, 122, 128-30, 134, 155, 157-58, 160-62, 166-68, 171-73, 176, 178-81, 183-85, 188, 191, 202, 225	1-4, 6, 14-22, 29, 32	
Representative Quotation	from 2000-2006 Doctoral Research Dis	sertation	Page
"So, what we may really need is a new cultural perspective — one that encourages us to think on an <i>a priori</i> basis about complex events and situations and to take appropriate actions to prevent serious problems before they happen and, if they occur, to have taken a close look at how to mitigate their adverse consequences."		113	
Samples of Plagiarized Qu	otations from 2007 FDA Food Protect	ion Plan	Page
"By preventing most harm before it can occurFDA can provide a food protection framework that keeps the American food supply safe."		2	
"Driven by science and modern information technology, the Plan aims to identify potential hazards and counter them before they can do harm."		6	
"The Plan focuses FDA's efforts on preventing problems first"		6	
"This/shift to an increased emphasis on prevention is at the core of FDA's Food Protection Plan"		4 .3	

r lagiarisiti di 2000-2000 Doctoral Dissertation Research			
Complexity Systems Management Method®		FDA Food Prote	ction Plan
Plagiarized Content	Pages in Doctoral Research Dissertation	Plagiarized Pages in Food Protection Plan	
Scientific extrapolation of the extended order effects of adverse events ahead of time	i, ii, 1-2, 12,32, 43, 44, 45, 47-48, 50, 52, 57-58, 61-62, 64-66, 69, 73, 76, 77, 83, 87-88, 90-92, 94-95, 97, 99, 103, 111, 113, 118, 121-23, 131-32, 134, 136-37, 155	2, 4, 6, 14-22, 27-28	
Representative Quotations	from 2000-2006 Doctoral Research Disse	ertation	Page
"For risk applicationswhat information had it been known before the adverse situation occurred could have used to mitigate its consequences?"		75	
"the potential outcomesare structured, catalogued and archived in a supporting computer knowledgebase."		77	
"Science-based models that show participants the extended order effects of decisions are used."		94	
Samples of Plagiarized Quotations from 2007 FDA Food Protection Plan		Page	
"By preventing most harm before it can occurFDA can provide a food protection framework that keeps the American food supply safe."		2	
"It [the FDA Food Protection Plan] is a forward-oriented concept that uses science and modern information technology to identify potential hazards ahead of time."		2	
"Driven by science and modern information technology, the Plan aims to identify potential hazards and counter them before they can do harm."		6 6	

Food and Drug Administration (FDA)
Plagiarism of 2000-2006 Doctoral Dissertation Research

Pidgidii	sm of 2000-2006 Doctoral Dissertation Re	esearch	
Complexity Systems N	Management Method®	FDA Food Protection Pla	n
Plagiarized Content	Pages in Doctoral Research Dissertation	Plagiarized Pages in Food Protection Plan	
4. Increased focus on prevention	47, 73, 75, 76, 79-80, 85-86, 90, 93, 97, 103, 112-13, 122, 127-30, 134, 155, 157-58, 160-62, 166-68, 170-73, 176, 178-85, 188, 191, 202, 225	1-2, 6-7, 12-15, 17-19, 21, 32	
Representative Quota	ations from 2000-2006 Doctoral Research	Dissertation	Page
"the current center of gravity for risk management rests on reaction with principal attention focused on <i>ex post facto</i> response to events."		79	
"Figures 2 illustrates the shift in the center of gravity from react and respond to the anticipation and prevention of adverse events under the complexity systems management method."		80	
"So, what we may really need is a new cultural perspective — one that encourages us to think on an <i>a priori</i> basis about complex events and situations and to take appropriate actions to prevent serious problems before they happen and, if they occur, to have taken a close look at how to mitigate their adverse consequences."		113	
Samples of Plagiariz	ed Quotations from 2007 FDA Food Prote	ection Plan	Page
"Driven by science and modern information technology, the Plan aims to identify potential hazards and counter them before they can do harm. A cornerstone of this forward-thinking effort is an increased focus on prevention."		6	
"While American consumers enjoy one of the safest food supplies in the world, growing challenges require a new approach to food protection at FDA — an increased emphasis on prevention."		13	
"This shift to an increased emphasis on	prevention is at the core of FDA's Food Pr	otection Plan"	⁷ 13

Food and Drug Administration (FDA)	
Plagiarism of 2000-2006 Doctoral Dissertation Research	

Complexity Systems Management Method®		FDA Food Protection Plan	າ
Plagiarized Content	Pages in Doctoral Research Dissertation	Plagiarized Pages in Food Protection Plan	
5. Targeting areas of highest risk for attention	74-76, 77-80, 83-86, 88-89, 90-91, 93- 95, 97-100, 124-27, 130-31, 134-37, 155-56, 158, 161-63, 165-66, 169-78, 181-192, 210	6, 14, 15, 16-18, 20-22, 24, 26, 2	9
Representative Quo	Representative Quotations from 2000-2006 Doctoral Research Dissertation		
"The critical nodes of a complex system [i.e., areas of highest risk] are those core interrelationships within the system itself that are particularly sensitive to changes in initial conditions."		74	
"This [risk] data includesthose points in a simulated event [i.e., areas of highest risk] where decisions must be made in order to avoid catastrophic system failure"		91	
"CSM simulations are tied to a supporting computer knowledgebase that characterizes each of the critical safety, security and programmatic nodes of operation of a product cycle [i.e., areas of highest risk] including associated fixed site food processing/manufacturing facilities."		169	
Samples of Plagiarized Quotations from 2007 FDA Food Protection Plan		Page	
"The intervention element focuses on	"The intervention element focuses onhigh risk points in the food supply chain."		6
"Prevention needs to be augmented by targeted intervention that focuses inspection and testing on the areas of greatest risk."			14
A comprehensive risk-based approach must consider the many variables that define risk. Such variables includewhere contamination is most likely to occur"			15
"Examining all aspects of the product life cycle helps define the areas of greatest risk."		⁸ 16	

Food and Drug Administration (FD	DA)
Plagiarism of 2000-2006 Doctoral Dissertati	on Research

Complexity Systems Management Method®		FDA Food Protection Pla	an
Plagiarized Content	Pages in Doctoral Research Dissertation	Plagiarized Pages in Food Protection Plan	
6. Validating the effectiveness of prevention measures and reducing risk [FDA uses the substitute term "intervention" for validation]	45, 59, 66-8, 70-1, 75-76, 79-80, 83, 85-86, 88-89, 90, 93-94, 99-103, 112-13, 136-37, 155, 157-58, 169-180, 185, 187	2, 6, 14, 16, 21-23, 27, 32	
Representative Quota	tions from 2000-2006 Doctoral Research	n Dissertation	Page
"The <i>immersion process</i> can also be used to test operational responses to high consequence agro-terrorist events involving America's food supply system including product cycle, fixed site food processing/manufacturing operations, supply chain distribution and retail sales."			169
The same knowledgebase can be used at the tactical level to test operational safety and security responses to agro-terrorism using hypothetical simulations before a similar event happens in the real world.		173	
CSM immersions use scientifically accurate simulations of hypothetical attacks for both threat analysis and to test actual operational capabilities in response to high consequence terrorist attacks against America's food supply.			174-75
Samples of Plagiariz	ed Quotations from 2007 FDA Food Prot	ection Plan	Page
"Intervention - Verify prevention and intervene when risks are identified"			2
"enhancing our intervention methods at key points in the food production systemcan provide a food protection framework that keeps the American food supply safe."		2	
"The Plan focuses FDA's efforts on preventing problems first, and then uses risk-based interventions to ensure preventive approaches are effective."			96

Food and Drug Administration (FDA)	
Plagiarism of 2000-2006 Doctoral Dissertation Research	

Complexity Systems Management Method® FDA Food Protection Pla		lan	
Plagiarized Content	Pages in Doctoral Research Dissertation	Plagiarized Pages in Food Protection Plar	
and "signals" as aids to early detection]	, .	4, 6, 11-14, 16-17, 21-24, 26	, 27
•	ns from 2000-2006 Doctoral Research D		Page
"For risk applicationsa time continuum that adverse event moving sequentially through consequences, and long term recovery."	•	- ·	75
"The simulations used in immersions are referred to as "full spectrum" because they are specially crafted to address the agro-terrorist threat from "field to fork" for different product cycles across the entire terrorist threat continuum from early detection [emphasis added], deterrence, deceit, deception, prevention, response, mitigation of immediate consequences and long-term economic recovery."			155
"These indicators and warnings are catalogue to facilitate focused intelligence collection sinterdiction of terrorists before they can such distribution and fixed site food manufacturing	trategies for the earliest possible detect cessfully attack critical nodes of agricult	ion [emphasis added] and	170-71
Samples of Plagiarized (Quotations from 2007 FDA Food Protect	ion Plan	Page
"The intervention element focuses onsurv	eillance at high risk points in the food su	pply chain."	6
"However, even the best system in the work prevention and intervention, faster and more	•	oblem is detected."	14
"Improve the Detection of Food System 'Sig	nals' that Indicate Contamination"		¹⁰ 22

Plagiarism of 2000-2006 Doctoral Dissertation Research				
Complexity Systems	Management Method®	FDA Food Protection Plan		
ized Content	Pages in Doctoral Research Dissertation	Plagiarized Pages in Food Protection Plan		

Plagiarized Content 16, 46-47, 64,67-68, 76, 78-79, 83, 86,

Food and Drug Administration (FDA)

8. Developing and testing the effectiveness of operational plans	88-89, 90-95, 97-103, 121-24, 130-31, 134-35; 137, 155-58, 160-62, 164, 169-75, 177-79, 180-85, 187, 189,190-91	6, 14, 16-19, 21-24, 27-31	
Representative Que	otations from 2000-2006 Doctoral Researc	h Dissertation	Page
"The resulting knowledgebase can be used for educational, strategic and tactical operational uses as a planning and response tool to manage analogous events that confront decision makers in the real world."		94	
"The same knowledgebase can be used at the tactical level to test operational safety and security responses to agroterrorism using hypothetical simulations before a similar event happens in the real world."		173	
"The complexity systems management n	nethod is a tool that can be used by the agricu	Itural sector as part of terrorism	

"The resulting knowledgebase can be used for educational, strategic and tactical operational uses as a planning and response tool to manage analogous events that confront decision makers in the real world."	94
"The same knowledgebase can be used at the tactical level to test operational safety and security responses to agroterrorism using hypothetical simulations before a similar event happens in the real world."	173
"The complexity systems management method is a tool that can be used by the agricultural sector as part of terrorism threat, risk and operational response planning where current risk assessment tools fail to systematically identify the critical nodes of operation of complex food production, processing and supply and distribution chains for assessing potential catastrophic outcomes."	177
Samples of Plagiarized Quotations from 2007 FDA Food Protection Plan	Page
"Interventions, in the form of targeted inspections and testing, verify that preventive controls are working and that resources are being applied to the areas of greatest concern"	14
"developing a contingency plan to aid in a response in the event of contamination."	17
"Develop written food protection guidelines for industry to a) develop food protection plans for produce and other food	

"The same knowledgebase can be used at the tactical level to test operational safety and security responses to agroterrorism using hypothetical simulations before a similar event happens in the real world."	173
"The complexity systems management method is a tool that can be used by the agricultural sector as part of terrorism threat, risk and operational response planning where current risk assessment tools fail to systematically identify the critical nodes of operation of complex food production, processing and supply and distribution chains for assessing potential catastrophic outcomes."	177
Samples of Plagiarized Quotations from 2007 FDA Food Protection Plan	Page
"Interventions, in the form of targeted inspections and testing, verify that preventive controls are working and that resources are being applied to the areas of greatest concern"	14
"developing a contingency plan to aid in a response in the event of contamination."	17
"Develop written food protection guidelines for industry to a) develop food protection plans for produce and other food products, and b) implement other measures to promote corporate responsibility."	18
"FDA will continue to work with industry in a) developing food protection plans that address safety and defense vulnerablities, b) implementing prevention steps, and c) developing contingency plans to improve response to an outbreak of foodborne illness."	1119

Plagia	Food and Drug Administration (FDA) arism of 2000-2006 Doctoral Dissertation F	Research	
Complexity Systems	Management Method®	FDA Food Protection Plan	n
Plagiarized Content	Pages in Doctoral Research Dissertation	Plagiarized Pages in Food Protection Plan	
9. Minimizing the consequences of adverse events	75-76, 79-80, 85-86, 113, 123, 126, 128, 170, 175, 176, 182, 187-88, 193, 200, 211, 217, 224	4, 17, 21-22	
Representative Que	otations from 2000-2006 Doctoral Researc	h Dissertation	Page
"For risk applicationsa time continuum that begins with earliest possible detection of an adverse event moving sequentially through deterrence, prevention, response, immediate mitigation of consequences and long term recovery [emphasis added]."			75
"The simulations used in immersions are referred to as "full spectrum" because they are specially crafted to address the agro-terrorist threat from "field to fork" for different product cycles across the entire terrorist threat continuum from early detection, deterrence, deceit, deception, prevention, response, mitigation of immediate consequences and long-term economic recovery [emphasis added]."			155
"These teams [immersion teams] also identify the range of potential consequences [emphasis added] of a successful attackThe results are catalogued and archived in the supporting computer knowledgebaseto 'baseline' onsite and external resources that could be called upon to respond to and mitigate the consequences [emphasis added] of a successful terrorist attack"		170	
Samples of Plagia	rized Quotations from 2007 FDA Food Pro	tection Plan	Page

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21

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"Expand the Understanding and Use of Effective Mitigation Measures"

"1.3 EXPAND THE UNDERSTANDING AND USE OF EFFECTIVE MITIGATION MEASURES"

"Develop new mitigation tools and implement appropriate risk management strategies."

riagianism of 2000 2000 Doctoral Dissertation Research				
Complexity Systems N	lanagement Method®	FDA Food Protection P	lan	
Plagiarized Content	Pages in Doctoral Research Dissertation	Plagiarized Pages in Food Protection Plan		
10. Indicators and warnings and intelligence collection strategies [FDA uses the substitute term "signals"]	76, 83, 86, 89, 93, 98-99, 122, 135, 156- 61, 163-68, 170-71, 173-74, 179, 181- 83, 185-86, 190, 192, 221, 224, 228	4, 12, 14, 21, 22, 24, 26-27,	31	
Representative Quotati	ons from 2000-2006 Doctoral Research Di	ssertation	Page	
"For risk applications, the precursor warning catastrophes are identified."	signals that can lead to disasters or cause disa	sters to escalate to become	93	
"the warnings of impending adverse situations are validated by immersion participants and strategies to implement highly focused intelligence collection are considered."			98	
"Critical nodes of product cycle, distribution and fixed site food processing/manufacturing operationsare analyzedto identify the indicators and warningsThese indicators and warnings arearchived in the supporting knowledgebaseto facilitate focused intelligence collection strategies for the earliest possible detection and interdiction of terrorists before they can successfully attack critical nodes of agricultural product cycle, distribution and fixed site food manufacturing operations."			170-71	
Samples of Plagiarized	d Quotations from 2007 FDA Food Protect	ion Plan	Page	
"Signals of potential problems come in the form of consumer complaints, inspection data, positive test results, adverse event reports, and other reports of illness."			12	
"A successful and fully integrated food protection system will identify signals that indicate the need for intervention."			14	
"Working with its food safety partners, FDA will improve its response system to more rapidly react when signals indicate either potential or actual harm to consumers."			14	
"An integrated, IT infrastructure with data gat	thering, sorting, mining, and trending capability	ry built into the systems is	13 31	

Plagiaris	sm of 2000-2006 Doctoral Dissertation Res	earch	
Complexity Systems	Management Method®	FDA Food Protection Pl	an
Plagiarized Content	Pages in Doctoral Research Dissertation	Plagiarized Pages in Food Protection Plan	
11. Application of science and information technology to identify vulnerabilities and determine the most effective countermeasures	I, 3-4, 6-8, 10, 12-13, 17, 25, 33, 43, 49, 51-53, 56-58, 64, 67-68, 73, 76-77, 83-84, 90, 91-95, 98-100, 103, 108, 110, 123-24, 132-136, 155-58, 164, 167-73, 169, 179-85, 190-92, 197, 208, 220-22, 225	2-7, 14-17, 24-25, 30-32	
Representative Quota	tions from 2000-2006 Doctoral Research D	issertation	Page
	er driven] models are used to scientifically extrans that could be made to manage each scenarion	•	76
"Analogously derived science-based [computer driven] simulations of hypothetical events and situations involving systems relationships among critical nodes of operation of a complex system are used during immersions."		90-91	
"Science-based [computer driven] models that show participants the extended order effects of decisions are used."		94	
"science-based scenarios and critical decision points of simulations involving potential future events and situations should be systematically "reverse engineered" usingcutting edge information technology developments including quantitative and computational social science modeling, advanced simulations and computer knowledgebases where all information is structured for repeatability."		123	
Samples of Plagiariz	ed Quotations from 2007 FDA Food Protec	tion Plan	Page
"It [the FDA Food Protection Plan] is a forward-oriented concept that uses science and modern information technology to identify potential hazards ahead of time."		2	
science underpinning how and where food	sed on science. FDA's Food Protection Plan emp becomes contaminated and the associated risk entions to reduce the likelihood of contamination	ss. The Plan also highlights the	16 14

Complexity Systems Management Method® FDA Food Protection Plan Pages in Doctoral Plagiarized Pages in Research Dissertation Food Protection Plan

the critical nodes [i.e., determine areas of highest risk]"

cause the greatest burden of foodborne disease."

avoid unacceptable outcomes [i.e., determine areas of highest risk]."

Plagiarized Content Research Dissertation 9, 75-76, 79-80, 83, 85, 88-89, 93-95, 97-100, 12. Determining and managing risk 127, 131, 134-35, 136, 154-56, 158-59, 160-62, 2-4,

168-71, 174-77, 180-83, 186-89, 191, 193

Representative Quotations from 2000-2006 Doctoral Research Dissertation

"The same red teams determine the outcomes and extended order effects of a range of different decisions for each of

"Subject matter experts are asked to determine those points in the simulation where decisions must be made in order to

"CSM food production cycle, distribution and processing/manufacturing facility immersions can be repeated with

from early detection, deterrence, prevention response, near term mitigation to long-term programmatic recovery."

"Establish a risk-based process [i.e., methods to determine risk] to continuously evaluate which FDA-regulated products

"A comprehensive, risk-based approach allows the FDA to maximize the effectiveness of its available resources by focusing

and fixed food processing/manufacturing site threat and risk plans, e.g., design basis threat."

"A comprehensive risk-based approach must consider the many variables that define risk."

on food products that have the potential to pose the greatest risk to human and animal health."

different participants to update a supporting knowledgebase in order to continuously refine product cycle, distribution

"A critical aspect of the CSM immersion process is...how to focus limited resources in the most efficient manner to achieve reasonable risk before a similar event happens in the real world. The CSM method considers the entire threat continuum

Samples of Plagiarized Quotations from 2007 FDA Food Protection Plan

Food and Drug Administration (FDA)

Plagiarism of 2000-2006 Doctoral Dissertation Research

2-4, 6, 11, 14-22, 24-29, 31-32

Page

95

156

169

176

Page

15

20

5 21

Plagia	Food and Drug Administration (FDA rism of 2000-2006 Doctoral Dissertation		
Complexity Systems N	lanagement Method®	FDA Food Protection Plan	
Plagiarized Content	Pages in Doctoral Research Dissertation	Plagiarized Pages in Food Protection Plan	
13. Holistic view of complex systems [FDA uses the terms production life cycle and supply chains]	8, 10, 11, 21, 23, 52-56, 61, 169, 170- 74, 177-80	2-3, 6, 14-16, 19-21, 27-28, 32	
Representative Quo	tations from 2000-2006 Doctoral Research	arch Dissertation	Page
	examine, from the holistic frame of refer viors, exhibited by a complex system or s		74
"The complex system is viewed holistically to determine the critical nodes of a system's operation, i.e., those core interrelationships or activities unique to a given system that are particularly sensitive to changes in initial conditions."		84	
"CSM food production cycle, distribution and processing/manufacturing facility immersions can be repeated with different participants to update a supporting knowledgebase in order to continuously refine product cycle, distribution and fixed food processing/manufacturing site threat and risk plans, e.g., design basis threat."		169	
"The simulations used in immersions are referred to as "full spectrum" because they are specially crafted to address the agro-terrorist threat from "field to fork" for different product cycles across the entire terrorist threat continuum from early detection, deterrence, deceit, deception, prevention, response, mitigation of immediate consequences and long-term economic recovery."			170
Samples of Plagia	rized Quotations from 2007 FDA Food F	Protection Plan	Page
"Examining all aspects of the product li	fe cycle helps define the areas of greate	est risk."	16
"FDA designed its Plan for the full life of	ycle of food–from production to consur	nption"	17

"By analyzing data collected throughout the food product life cycle, we are better able to detect risks posed by

food products."

¹⁶ 21

Food and Drug Administration (FDA)
Plagiarism of 2000-2006 Doctoral Dissertation Research

Complexity Systems N	lanagement Method®	FDA Food Protection Plan	1
Plagiarized Content	Pages in Doctoral Research Dissertation	Plagiarized Pages in Food Protection Plan	
14. Integrating safety and security	42, 45, 48-49, 59, 114, 154, 169, 171- 78, 183, 187-88, 190	3, 7, 15-17, 19-20, 32	
Representative Quota	ations from 2000-2006 Doctoral Researc	h Dissertation	Page
"CSM simulations are tied to a supporting safety, security [emphasis added] and pure fixed site food processing/manufacturing	·		169
	traditional stove piping between and am the local business, central government,		175
, , ,	otic relationship between food safety and notice relationship between food safety, when integrated with secur	•	176
Samples of Plagiariz	ed Quotations from 2007 FDA Food Pro	tection Plan	Page
"FDA is implementing a Food Protection domestic and imported products."	Plan (the Plan) that addresses both food	I safety and food defense for	3
"Encompasses [i.e., the FDA Food Protection (deliberate contamination)"	ction Plan] food safety (unintentional con	tamination) and food defense	7
"The best way to handle food safety and both."	I food defense is to develop approaches	that appropriately address	₁₇ 16