

Could you imagine the head of quality at at firm saying to an FDA investigator:

____1. "We don't commit fraud – we don't rely on formal written contracts; you need to trust us as we trust our people and suppliers."

_____2. "We outsource the data integrity function so it's the responsibility of our contractor to ensure the integrity of our data."

<u>____</u> 3. "We don't worry about data integrity issues, our IT department backs everything up."

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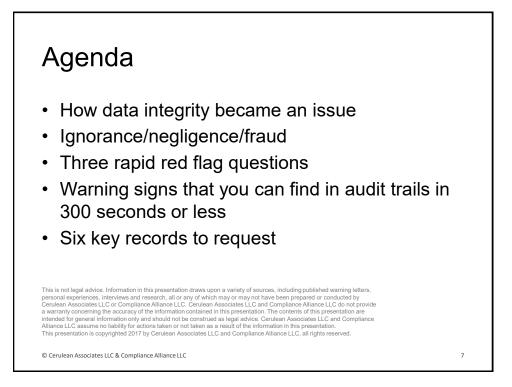
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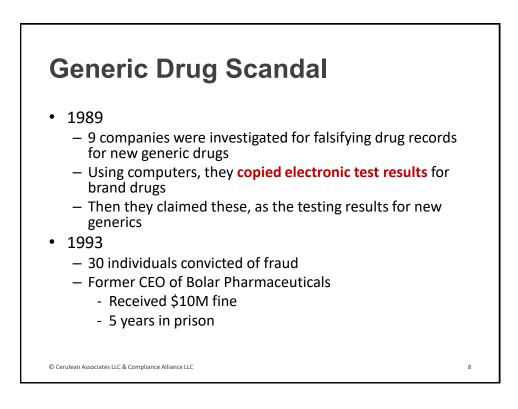


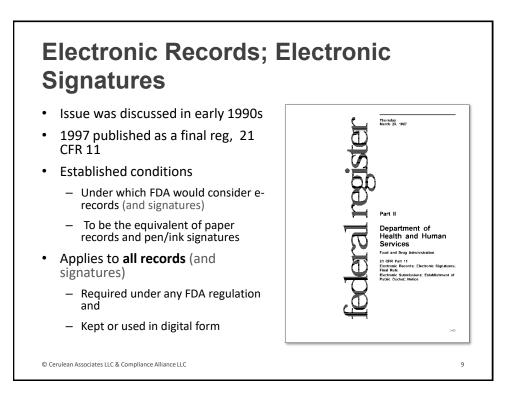


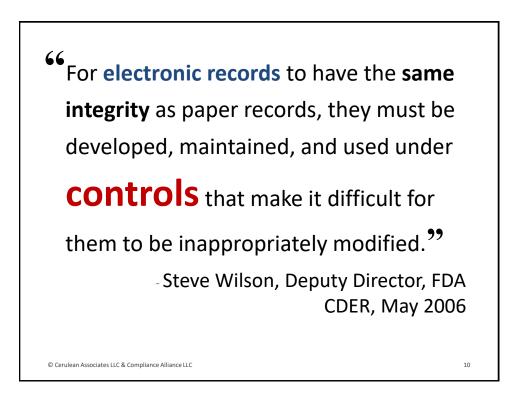




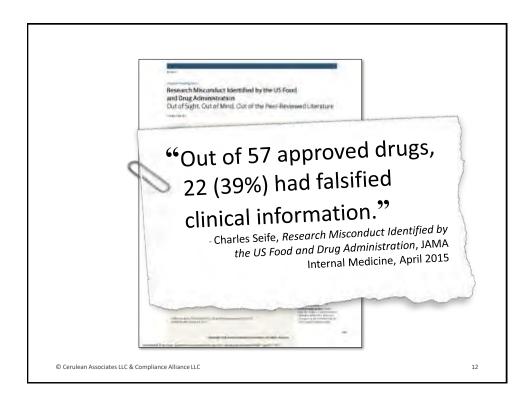




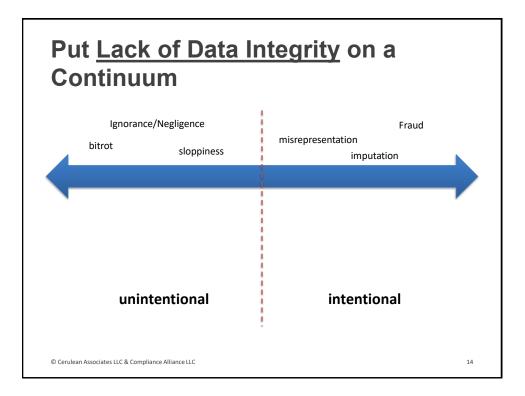


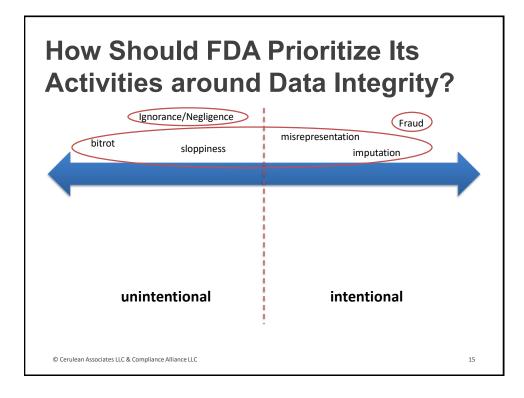


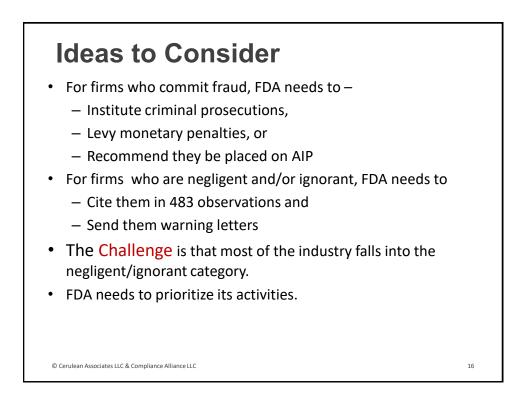


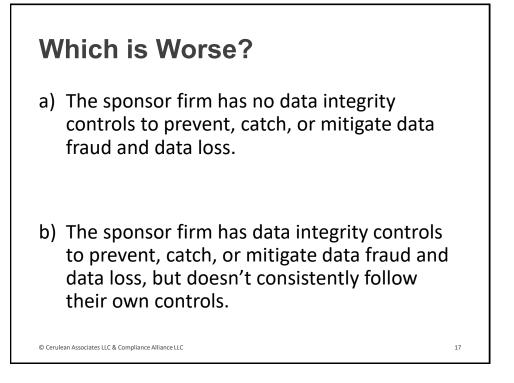


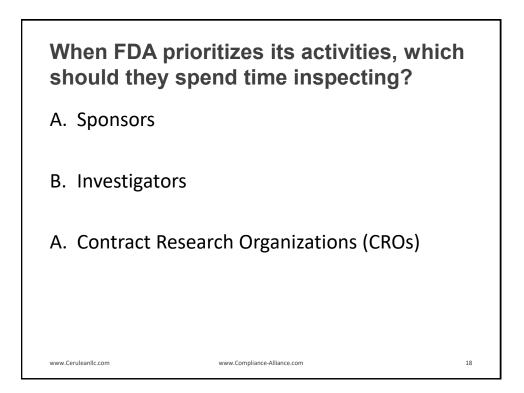


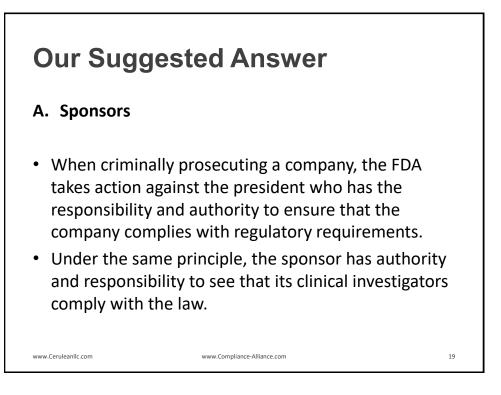


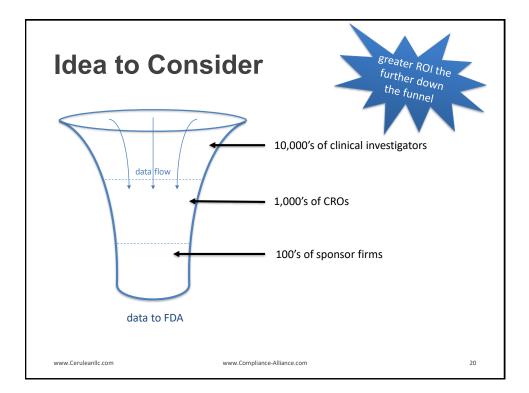


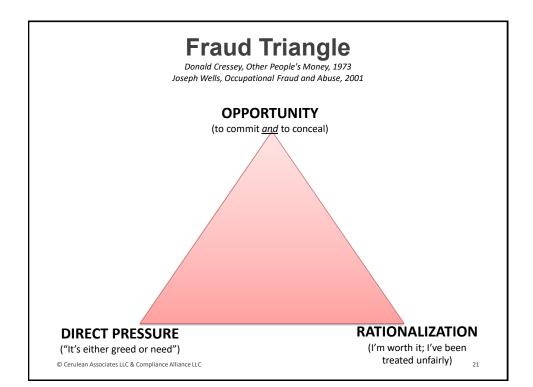


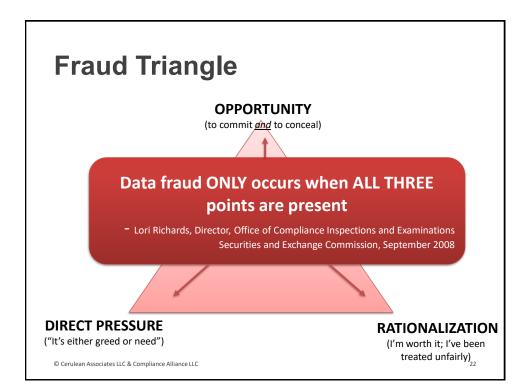


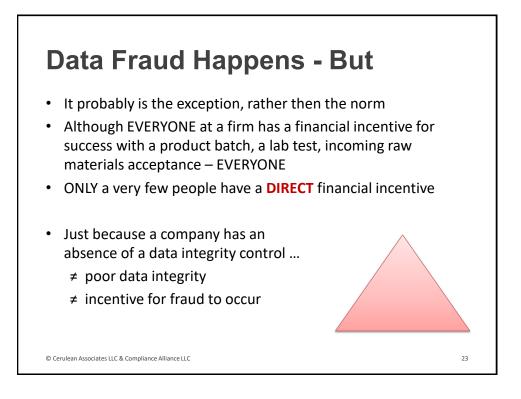












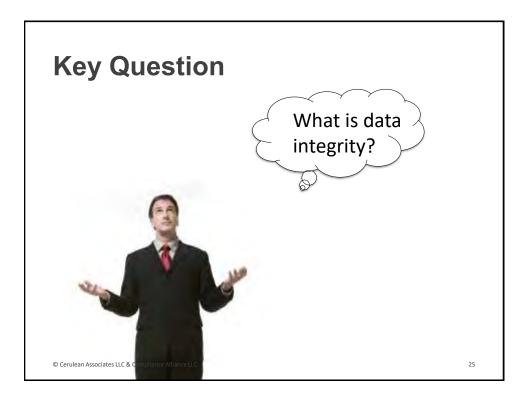
Line Worker Data Integrity Pressures

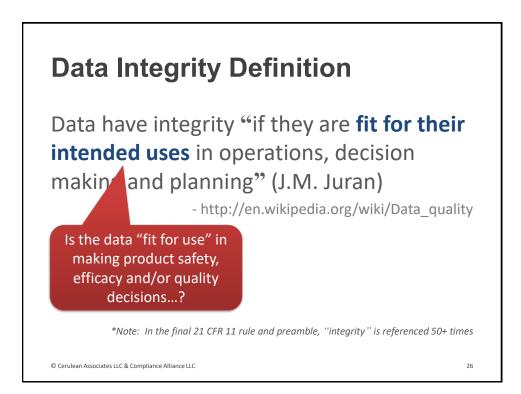
Joe is the factory floor shift supervisor. He's been at the drug firm for 14 years.

Tonight he has his first date since he broke up with his last girlfriend. He's leaving no later than 5pm no matter what.

The manufacturing system, eLimity, is slower than usual today and if they can't get the batch measurements entered into the system by 4:30pm, he'll have to stay late again.

What fraud corners (opportunity, direct pressure, rationalization) are present?





WHO Data Integrity Importance

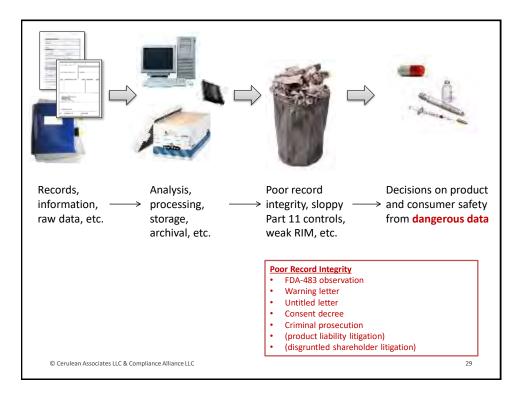
"Implicit in the assessment and review

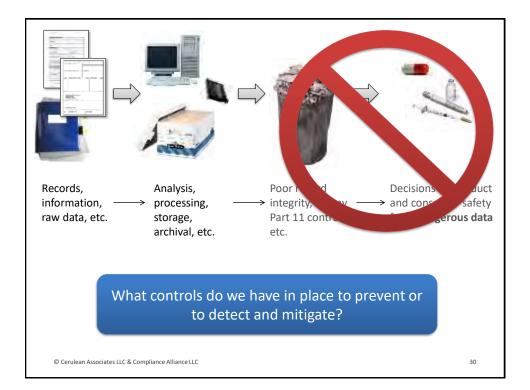
process is **trust** between the regulator and the regulated **that the information submitted in dossiers and used in day-to-day decision-making is comprehensive, complete and reliable**. The data on which these decisions are based should therefore be complete as well as being attributable, legible, contemporaneous, original and accurate, commonly referred to as 'ALCOA.'"

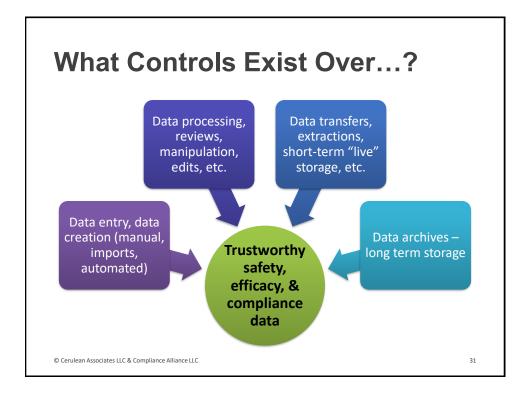
- WHO, Guidance on Good Data and Record Management
Practices, June 2016
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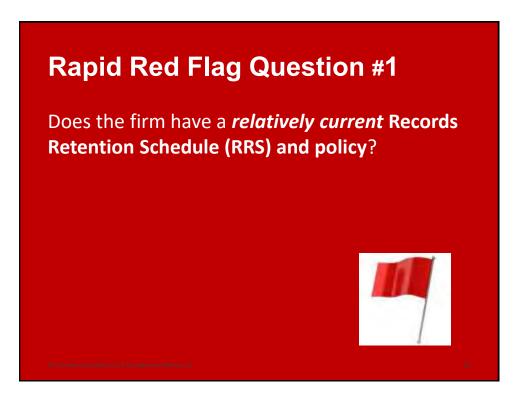












RRS I	Example fo	or IT		
Department	Record Types	Archived Retention	Citation	
IT Systems Administration	COTS SW Code (DVDs, etc.)	End of SW Usage + 3 years	UPPBRA 31-08.1-02	
	SW licenses & EULAs	End of SW Usage + 4 years	COV 8.01-243	
	SDLC, configuration, and QC testing documentation	End of system life + 3 years	UPPBRA 31-08.1-02	
	Leased HW disposal records (lists, receipts, etc.)	Date of disposal + 4 years	COV 8.01-243	
	Owned HW disposal records	Date of disposal + 3 years	UPPBRA 31-08.1-02	
IT Security	System Access Controls, User Account Lists, Security Configurations	Annual + 3 years	UPPBRA 31-08.1-02	
	Personnel Medical Records System Access Controls, Security Config., Reports	Annual + 6 years	45 CFR 164.316 (HIPAA)	
		Last Upd	lated July 2016	
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Rapid Red Flag Question #2

Ask senior management, **Can you explain the** relationship between good data integrity (e.g., data trustworthiness) and product safety, efficacy, and quality?



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Senior Management Activities

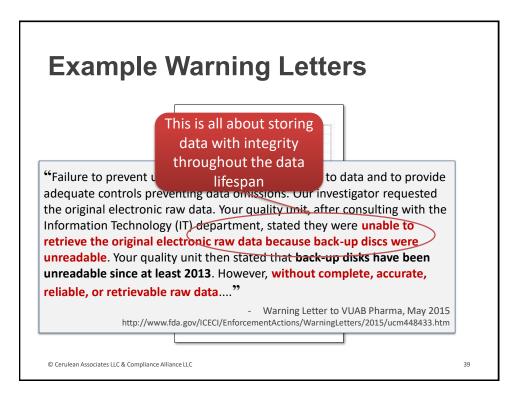
- Act as sponsor of the overall data integrity program
- Review and approve budgets, assign resources
- Review and approve the overall site data integrity compliance plan (or the overall clinical trial data integrity plan)
- Help drive priorities based on a mix of risk and low-hanging fruit (create a "succession of successes")
- Keep program's focus on controlling risk to data and decisions ("How will this help our data be more trustworthy for....?")
 - · decisions related to product safety and efficacy
 - decisions related to quality system and regulatory compliance

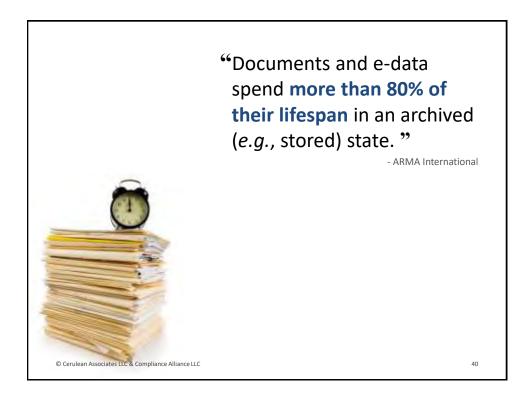
Rapid Red Flag Question #2

Ask senior management, **Can you explain the** relationship between good data integrity (e.g., data trustworthiness) and product safety, efficacy, and quality?

If you cannot explain it, You cannot lead it.







Is This a Data Integrity Issue...?

For a product produced two years ago, a firm used a graphical product insert and label (it's got pictures on it plus text).

During an inspection, you request to see the original digital proof (with the firm's approvals to proceed, etc.) to ensure it matches with the approved labeling. After 4 days, this is **all that the firm could recover** from its original approved digital proof.

Is this acceptable since the firm does have paper copies of the graphical insert and label based on the digital proof?

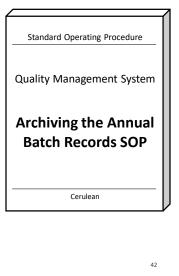
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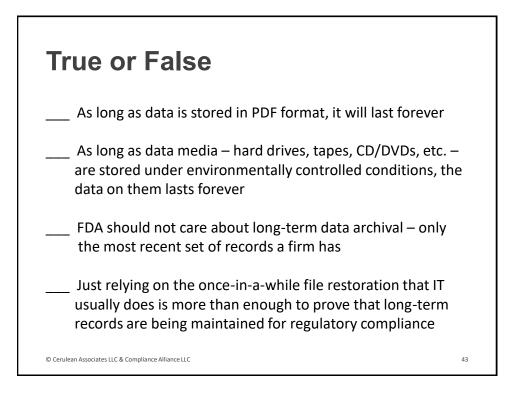


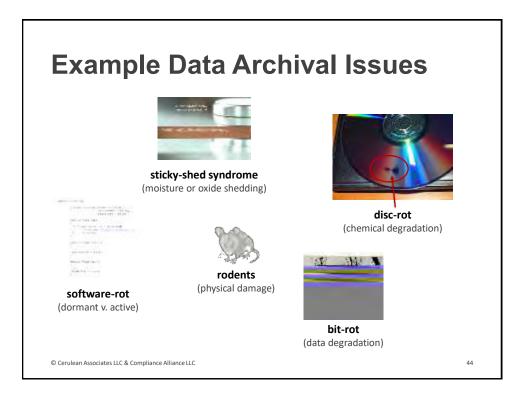
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Example SOP Questions for Data Integrity during Long-Term Archives How often are archived data brought back from archive and sampled for consistency, integrity, completeness, etc.? Who is involved in this verification? Are they qualified? Is the data sampling scientific or

- Is the data sampling scientific or otherwise a validated sampling methodology?
- Does the SOP give any indication on how missing/corrupt data in the archives are to be handled?

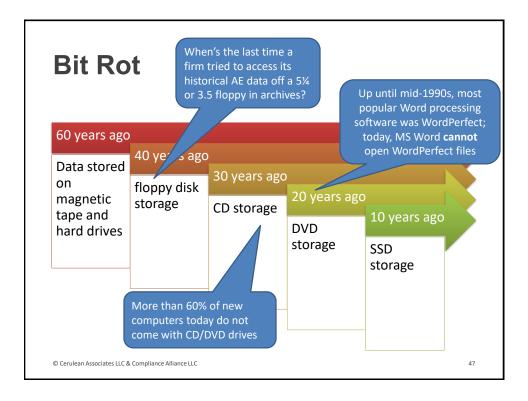






60 years ago Data stored on magnetic tape and hard drives	o 40 years ago				
	floppy disk storage	30 years ago	o 20 years ago		
			DVD storage	10 years ago	
				SSD storage	
		-			

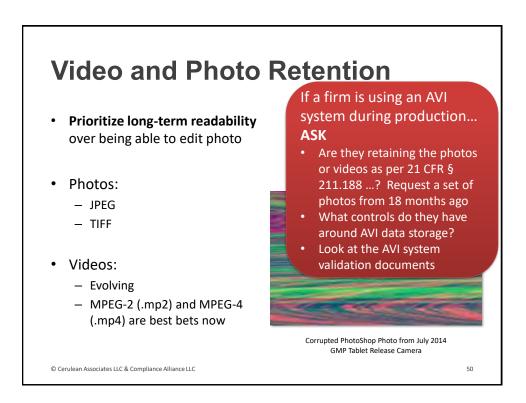




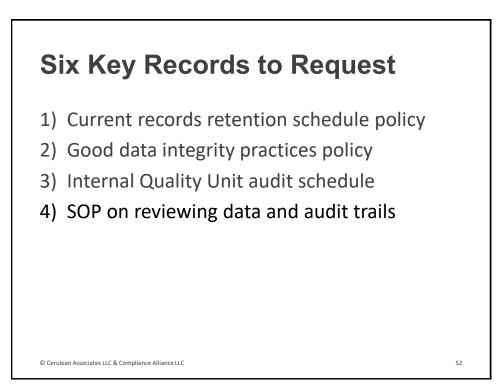
Typical Media Format Lifetimes

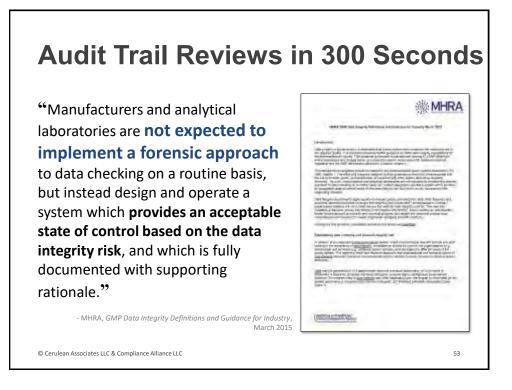
Media Type	Proven Archival Lifespan Range		
Magnetic hard drive	3-5 years		
SSD hard drive	Unknown (similar to USB at 5-10 years)		
Analog tape	10-20 years		
Digital tape	Up to 10 years		
Floppy disk (3.5, 5¼, et al)	10-20 years		
CDs/DVDs (recorded)	2-7 years		
Blu-ray DVDs	Unknown (likely similar to CDs/DVDs)		
Microform (microfiche/microfilm)	40-55 years (to date)		
	<u>Sources:</u> Carnegie Mellon Ars Technica US National Archives and Records Administration Recovery Zone		
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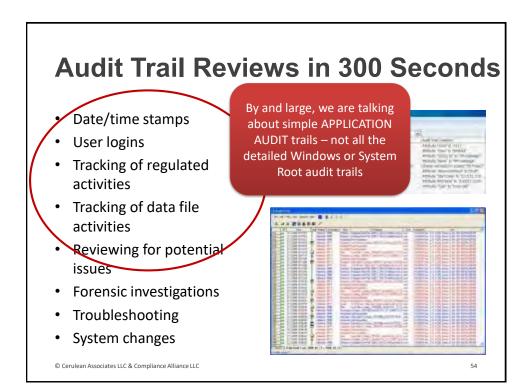


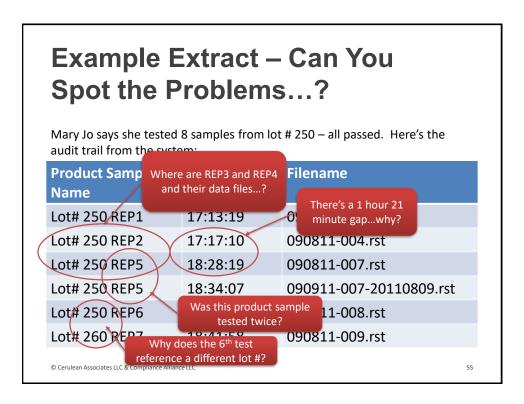


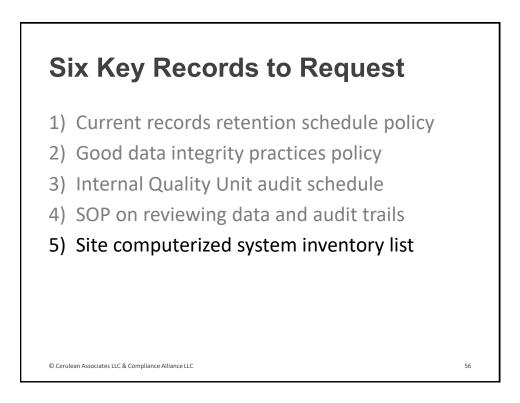


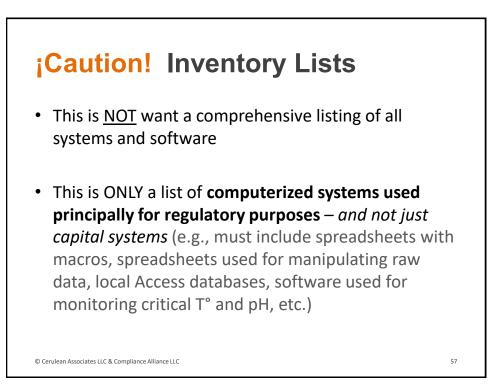










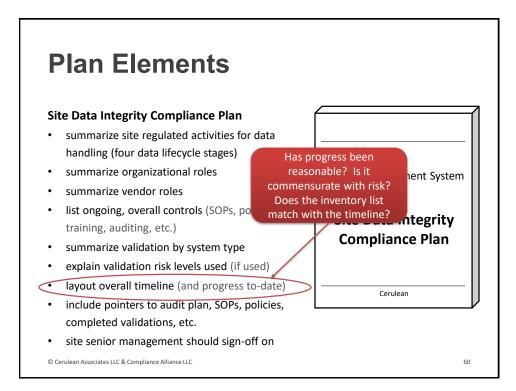


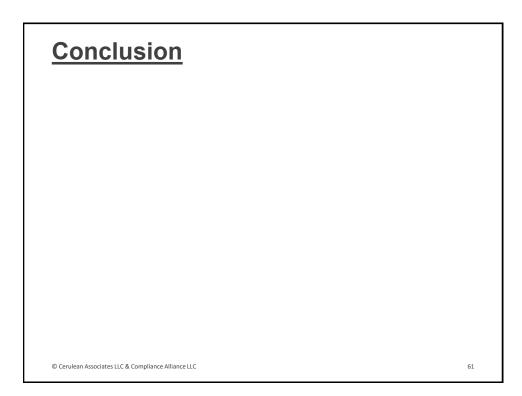
Inventory Format*					And here is a nice list c change controls you ca request to see	
Туре	Area/Site	Product Name, Purpose & Supplier	Version or Model	Last Validation Date	Most Recent Changes (within past year)	
Networked (onsite)	Labs (all)	Chromeleon Chromotography Data System (Thermo Scientific)	v 6.9	Dec. 2014	Change controls #73, 76, 81	
Hosted SaaS	Corporate (all sites)	TrackWise EQMS (Sparta)	v 8.1	Nov. 2015	Change controls #81, 111	
Stand- alone	QC Lab	Excel Sample Tracking Worksheet (Microsoft with custom macros)	v Office 2013	April 2016	n/a	
			And look – here are the PQ's you should consider looking at			

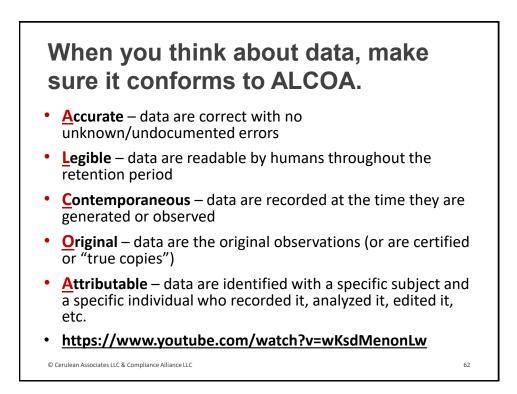
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Six Key Records to Request

- 1) Current records retention schedule policy
- 2) Good data integrity practices policy
- 3) Internal Quality Unit audit schedule
- 4) SOP on reviewing data and audit trails
- 5) Site computerized system inventory list
- 6) Site data integrity compliance plan







About Your Presenter John Avellanet



john@ceruleanllc.com www.ceruleanllc.com John Avellanet gives practical, compliance solutions for clients around the world. Winner of the 2009 & 2011 Best of Business Services award by the Small Business Commerce Association, Mr. Avellanet has earned international acclaim for his business-savvy, pragmatic compliance advice.

He most recently served as the industry expert reviewer for the international standard, BSI 10008 *Evidential Weight and Legal Admissibility of Electronic Information* (2015). He is a lead expert for the ISPE GAMP Data Integrity Working Group.

In 2014, he co-authored the book, <u>Pharmaceutical Regulatory Inspections</u>, with several current and former regulatory agency officers, and his industry classic, <u>Get to Market Now! Turn FDA Compliance into a Competitive Edge in the Era of</u> <u>Personalized Medicine</u> (2010), was originally featured at BIO 2011 and garnered multiple five-star reviews from industry publications, blogs, Amazon.com readers, and former FDA officials.

From 2011-2015, John served as the Independent Review Organization on behalf of the US Department of Justice over the multi-million Dr. Comfort corporate integrity agreement.

Prior to founding Cerulean, John spent more than 15 years designing, implementing, and being accountable for quality systems and data compliance programs for FDA, DEA, BIS, ICH, IMDRF, and ISO.

In 2006, Mr. Avellanet founded his independent consulting and training firm, Cerulean Associates LLC.

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About Your Presenter Nancy Singer



nancy@compliancealliance.com **Nancy Singer** founded Compliance-Alliance LLC to specialize in the professional development for those employed in the medical device and drug industries. Previously she served as AdvaMed's Special Counsel for FDA compliance and enforcement matters.

Nancy began her career as an attorney with the United States Department of Justice where she did litigation for the Food and Drug Administration. Subsequently she was a partner at the law firm of Kleinfeld, Kaplan and Becker.

Nancy received her B.S. from Cornell University , and J.D. and LL.M. degrees from New York University Law School.

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