



















Definition of Raw Data in Our Industry ? (FDA CFR 58 - GLPs)

- Raw data means any laboratory worksheets, records, memoranda, notes, or exact copies thereof, that are the result of original observations and activities of a nonclinical laboratory study and are necessary for the reconstruction and evaluation of the report of that study.
- In the event that exact transcripts of raw data have been prepared (e.g., tapes which have been transcribed verbatim, dated, and verified accurate by signature), the exact copy or exact transcript may be substituted for the original source as raw data.
- Raw data may include photographs, microfilm or microfiche copies, computer printouts, magnetic media, including dictated observations, and recorded data from automated instruments.

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	Global Regulatory Views								
	Compliance Program Guidance CPG 7345.832 has specific directive to FDA PAI inspectors regarding auditing of Data Integrity:								
	"There are three primary inspectional objectives of this PAI program, all of which require an informed strategy and careful on-site evaluation. These objectives are:								
	Objective 1: Readiness for Commercial ManufacturingObjective 2: Conformance to ApplicationObjective 3: "Data Integrity Audit"								
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Short Industry Examples Company Observation P/S/H? QC Laboratory data acquisition software was not validated to А ensure the re-writing, and deletion of data was prohibited В QC records did not show who performed the analysis; raw data was not recorded contemporaneously (real time) nor by the performing analyst. Failed in injections of QC standards deleted from the sequence without explanation С Batch records found falsified after discarding original ones to provide "clean records" Within the QC laboratory there was evidence of non-D contemporaneous recording of lab data, using scrap papers, yellow sticky notes. Some of this raw data was also found in waste bins. Unofficial "trial" testing of samples for production Е "management information only" :Be 20 CBE - 012 V03



	Short Industry Examples	Ż
Company	Observation	P/S/H?
F	OOS results found within records of QC data acquisition system not investigated. Retesting carried out and not justified.	
G	QC staff routinely collected raw data on scrap paper and collated with printed off chromatograms to write a "clean report" in MS Word to present to the head of QA. A review of reports so prepared showed zero errors or natural errors normally expected within a busy QC environment- original raw data, weighing's, observations not kept. In some cases the equipment log was used to capture raw data.	
н	The Data acquisition systems of the HPLC and GC systems was not backup up nor part of any company back up policy or program. After Chromatograms had been printed out raw data was deleted on a monthly basis due to hard disk constraints. There was no way to re-verify results from release or stability testing. There were no QC procedure regarding management of electronic data, backup, security or strict access levels. Data and methods could be accessed by QC staff sharing passwords.	
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	Short Industry Examples	Î
Company	Observation	ALCOA?
I	Production records revealed that the dispensary records had not been filled out contemporaneously and nor had they been checked but completed with the theoretical amounts after the event.	
ſ	The paperless chart recorder monitoring the Purified water plant recorded the data from inline conductivity and TOC on an SD card. There was no policy or procedure for downloading this data nor any means to "replay/review" it offline should it be required; the SD card was simply formatted as and when full of data indicated by and alarm.	
К	The NIR used to conduct raw material ID by QC within the inwards goods store regularly recorded "fail" results or outliers of the approved data set. The investigation routinely cited "passes compendial testing" added to data set. There was no explanation or procedure for routine expansion of data sets or how such results are not investigated using the OOS procedure.	
L	Inspection of the HPLC data acquisition system logs and sequences revealed that several blocks of data or analysis could not be matched with product release testing records (paper) that is the batch in question had more than one data set. Both data sets passed but only one was used without explanation.	
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FRM-SOP-VAL-XXX					Complexity Assessment			
ltem N			Equipment #:				Classify the item as:	ad to
Part of	Process Line:	cass Line Location/Room					COMPLEX integrated components to work synchronously e.g. a freeze dryer or filing machin	ne
							NOVEL A novel item is one that is custom built for the process step – it may be either co or simple, but is generally classified as complex.	mple
GxPs to Descrip	aken into account: E stion of the main fun	JGMP □GDP □G otions:	(QC)LP GAMP Other				Simple equates to equipment that has only one module or unit e.g. a filter pr	ess, a
							SIMPLE moong tank or an incubation room. These items are often purchased "off the she stand alone and not integrated	SIT OIL
	1	Impact Assess	ment Checklist	_				
	Complete the check only related to a con	dist questions below by tickin sponent of the item tick Yes a	ng each line. If the answer is Yes but and the Component box.	omponent	Yes	No	Concursion: Provide a concise justification for the classification of the item addressing both criticality and complexit	ty.
	Is the item, or compo	onents in direct contact with th	he product or auxiliary solutions during					
2	production or during Item provides an ex-	monitoring?	, , , , , , , , , , , , , , , , , , , ,	븝	님	븝		
3	Does the item (or a	component) produce data wh	ich impacts in process or final product	님	님	片음		
4	Does the item who	olly or partly independently	decide on the further processing of					
5	Does the item (or	a component) monitor a C	PP or WPP control system with no	님	님	片급		_
-	Independent verification?		븝	님	님님	Approval of Report:		
7	Failure or alarm has	direct effect on product qual	ity or impacts a CPP/WPP?				Name/Title Signature Date	_
8	Does the item direct	thy or indirectly control/monito	or prescribed environmental conditions			10	Value	
9	of products? Is the item involved in the generation / processing of analysis values?					Engineering		
10	Does the item perm	anently save "critical" data?		1 d			Production	
11	Does the item use electronic records / electronic signatures?					Outlin Annuary		
12	Does the time contain data that describes the product or product quality?		멷	문	믐	Quality Assurance		
14	Is the item used as a	a primary or supporting source	set or the set of the	븝	님	ΗH		
15	Does the item direct	tly or indirectly control/monito	or the storage of products in regard to	늡	님	님님		
16	Does the item auton	ture, rons or storage durato natically provide medically rei	n r levant information?	T	1 D	tö		
17	Are products labeled	d with the item?						
18	Is item used for clea	ning/sanitation or product co	ntact equipment or sterilization?					
opinior	or a Subject Matter	Expert (if in doubt)	Sign					
			Date					
lassifi	cation							
DIRECT IMPACT If the answer to any one of the above is Yes then the item is Direct impact.								
INDIRECT IMPACT If the answer to any <u>one</u> of the above is Yes but relates to a component only then the item is indirect Impact.								
NO IMPACT If the answer to all of the above is No then the item is has no (GxP) impact. This conclusion does not imply that it does not have GEP significance.								
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