Commentary

21 CFR Part 11: Electronic Records; Electronic Signatures: Questions and Answers

The agency does not believe Part 11 needs to require recording the reason for record changes because such a requirement... is already in place...

he following question and answer commentaries were taken from the General Session at IVT's Computer and Software Validation and Electronic Records and Signatures Conference, held on April 22-25, 2002.

Does the system need to comply to Part 11 since the electronic record is not used, only the printed result?

The system does need to comply with 21 CFR Part 11. From the question, one assumes that the printed record results from electronic records. If this is true, then the printed results are generated from electronic records using a computerized system of some sort, 21 CFR Part 11.1 (i.e., the Scope) indicates the following: "This part applies to records in electronic form that are created, modified, maintained, archived, retrieved, or transmitted..." This section has only one limitation, and that is "...paper records that are, or have been, transmitted by electronic means." This refers to a

fax process. Faxing doesn't seem to be the issue in this scenario. Therefore, electronic records are in fact used in the process, and this means that the system needs to comply with the regulation.

Do I correctly interpret audit trail requirements for Part 11 to not require a reason for the change, as is required by the Good Laboratory Practice (GLP) audit trail?

 Strictly speaking, this is correct. Part 11 does not in itself specify the need for a reason for change. In the preamble to the regulation, the FDA indicates, "The agency does not believe Part 11 needs to require recording the reason for record changes because such a requirement... is already in place in existing regulations and pertain to the records themselves." Given this wording, however, it is my opinion that the requirement is there nonetheless if the predicate regulations (e.g., GLP) require it. That's where the Agency will look.

Leonard A. Grunbaum
President and Chief
Operating Officer
META Solutions, Inc.

Is a manual audit trail acceptable for the short-term until the system is remediated technologically for the long-term?

The answer is "yes," but let us emphasize "short-term" here. In Compliance Policy Guide 7153.17, one of the determinants in the decision whether to pursue regulatory actions is the following:

Adequacy and timeliness of planned corrective measures... Firms should have a reasonable timetable for promptly modifying any systems not in compliance (including legacy systems) to make them Part 11 compliant, and should be able to demonstrate progress in implementing their timetable, FDA expects that Part 11 requirements for procedural controls will already be in place. FDA recognizes that technology based controls may take longer to install in older systems.

Developing the remediation plan and then implementing it should be a priority.

. How much testing is required for Micro-soft Excel[®] calculations/equations?

The answer to this question has to be provided in terms of "quality" rather than "quantity" of testing. Referring to the language in 21 CFR Part 11.10(a), your testing has to be robust enough to confirm that all calculations and the resulting data are accurate and reliable (i.e., the formulas work properly and the correct data is used), proce-

dures (e.g., security, backup, and recovery) are in place to help ensure that the software will operate consistently, and an audit trail is provided to allow for identification of invalid or altered records. So the way to determine if your testing is robust enough is to measure it against your requirements for the respective spreadsheet. Therefore, you need to document those requirements (a functional requirements document), and then confirm through a traceability matrix or other appropriate tool that all requirements are met. A functional requirements document does not have to be large and complex, but it should specify what the spreadsheet is being used for. To summarize then, there is no "quantity" measure to determine how much testing is required. There is, however, a "quality" measure: are your requirements adequately tested?

About the Author

Leonard A. Grunbaum is the President and Chief Operating Officer of META Solutions, Inc. He is responsible for all operational aspects of the company, and the management of all aspects of the validation consulting services to the pharmaceutical industry. Len has a BA and an MBA from Long Island University. He was a Director of the Electronic Data Processing (EDP) Auditors Association. Len is the author of "Do It Right The First Time: A Handbook for Controlling Technology Through Good Validation Practices," published in the February 2000 issue of the Journal of Validation Technology. Len can be reached by phone at 732-845-4904, by fax at 732-845-4834, or by e-mail at len_g@metasol.com.

ASSISTANCE REPORTED TO THE REPORT OF THE REP Implementing Electronic Records and Signatures

Learn Part 11 and understand its underlying principles from Industry experts and FDA officials. You receive 15 informationpacked articles including:

- ➤ Electronic Records and Signatures: The FDA's Perspective ➤ A Practical Approach to Compliance for 21 CFR Part 11:
- Electronic Records/Electronic Signatures Final Rule
- ➤ Compliance with Part 11 An MRP II Legacy System ➤ Comply with Federal Regulations: Controlling the Electronic
- Transfer of Clinical Trial Data Practical Advice
- ➤ Are You at Risk? Current Trends in 21 CFR Part 11
- ➤ Electronic Records and Signatures: Questions and Answers
- ➤ Issues that Require More Discussion
- ➤ Conducting an Internal Audit for Electronic Records Compliance: A Primer

Includes: The Federal Register, 21 CFR Part 11: Electronic Records, Electronic Signatures, and Final Rule Electronic

Plus: Guidance for Industry: Computerized Systems Used in Clinical Trials



200 Business Park Way, Suite F Royal Palm Beach, FL 33411-1742 Phone: 561-790-2025 or 800-276-4242 (U.S. Only) Fax: 561-790-2065 E-Mail: info@ivthome.com