

National Alliance of Independent Crop Consultants



EPA Regulatory Inspection & Field Site Preparation

Orlando, Florida
January 2010

Content

- **Targeting**
- **Pre inspection procedures**
- **GLP points of interest:**
 - **Test substance & equipment**
 - **SOPs**
 - **Electronic data**

LDIB Access to Studies

- **Studies received by OPP entered into OPPIN data base**
- **LDIB accesses OPPIN data base for studies submitted under FIFRA**
- **LDIB's data base LISA**

Targeting

- **Neutral Scheme**
 - **Most common**
 - **Random facility selection**
- **For Cause**
 - **Requested inspection:**
 - **OPP/ OCE or foreign source**
 - **Informant?**

Target Selection Criteria

- Last date of inspection
- Compliance history
- OPP, OCE, OECA priority list
 - Type of chemicals
 - Types of studies
- Number of studies submitted
- Date study received at EPA
- Geographical location



First Contact with the EPA Inspection Authority

- EPA sends a letter to the field site and study sponsors which specifies:
 - Studies to be audited
 - The nature and purpose of the inspection
 - The dates of inspection
 - We will choose one or more ongoing study(s)



EPA Letter Requirements

- **Suitable space for the auditor**
- **Have available & in good order, all original data (*certified copies sometimes accepted*)**

EPA Letter Requirements

- **Copies of the protocol & amendments and any reports to sponsor**
- **Sponsor correspondence with study personnel including the study director**

EPA Letter Requirements

- **Study personnel should be available for the inspection**
- **Relevant SOPs must be available**
- **Test substance information available**
 - **Characterization data**
 - **Purity and lot number information**
 - **Records of receipt, storage, usage including chain of custody procedures**

Call From the Inspector

- **Introduce ourselves and inspection team if relevant**
- **Clarify the “nature” of the inspection**
 - **neutral scheme or for cause**
- **Answer any questions from EPA letter**
- **We’ll ask for:**
 - **Floor Plan and site map of your facility**
 - **Organization chart (sponsor down)**



Call From the Inspector

- **In addition, we'll ask for:**
 - **A discussion of your facility, (past, present, and future plans)**
 - **Quality assurance routing forms**
 - **Master schedule**
 - **Personnel C.V.'s and records of training**
 - **List of current and historical SOPs**

Call From the Inspector

- **We verify your address and request directions to your site**
- **We provide you with our phone information, and encourage you to contact us with any questions that may arise prior to inspection**

Chemical Handling and Equipment



Chemical Substance Handling

- **Procedures established for storage & distribution:**
 - **Minimize contamination/deterioration**
 - Environmental conditions (i.e. light, temperature, humidity, ventilation)
 - **Identification throughout study distribution**
 - **Chain of Custody (COC)**
 - Document amount used, when, and by whom
 - “Cradle to Grave” at the individual facility

Substance Container Labeling

- Name
- CAS / code number
- Batch number
- Expiration date
- Storage conditions
- Storage containers assigned to minimize contamination



Test, Control & Reference Substance Characterization

§160.105

- **Records typically maintained and sent to audit by the study sponsor**
 - **Analysis for each batch to determine identity, strength, purity, composition...**
 - **Determined and documented before its use in the study**

Test, Control & Reference Substance Characterization

§160.105

- **Records typically maintained and sent to audit by the study sponsor**
 - **Solubility when relevant**
 - **Stability shall be determined before experimental start date or concomitantly**

How do we define “Equipment” for a GLP Study?



Equipment Design

§160.61

- Equipment used for the *generation, measurement, or assessment of data* and equipment used for facility environmental control shall be:
 - Appropriate design and capacity to function according to the protocol
 - Suitably located for “proper” operation, inspection, cleaning, and maintenance

Maintenance and Calibration of Equipment § 160.63(a)

- Equipment shall be adequately inspected, cleaned and maintained
- Equipment used for the generation, measurement, or assessment of data shall be adequately tested, calibrated, and/or standardized

Equipment Standard Operating Procedures

§160.63(b)

- **Methods, materials, and schedules used in the routine inspection, cleaning, maintenance, testing, calibration / standardization of equipment should be documented in an SOP**

Equipment Standard Operating Procedures

- **Specify remedial action taken in event of failure or malfunction**
- **Person designated as responsible for performance of above operations**

Standard Operating Procedures (additional points)

- **Are SOPs current and properly approved?**
 - **Rubber stamp approval by management?**
- **Do they reflect current practices?**
- **Accurate with appropriate detail?**
- **Are they available at each work area, are they followed?**
- **Are historical SOPs available?**

Written Records

§ 160.63 (c)

- **Records shall be maintained for equipment.**
 - **Inspection**
 - **Maintenance**
 - **Testing**
 - **Calibration / verification**
 - **Retirement of equipment**

Written Records (continued)

- Also must include:
 - Dates of operations
- Type of maintenance operations: *routine*
 - Standard Operating Procedure followed
- Repair / maintenance operation: *nonroutine*
 - Describe problem
 - How and when problem discovered
 - Action to correct the problem

Fundamentals of Electronic Records



Electronic Records

- **Must establish the following record keeping requirements:**
 - **Ability to generate and maintain accurate and complete copies of records for potential review, and protect them against alteration**
 - **Computer systems (including software and hardware) must be available for agency inspection**

Electronic Records

- **Protection of electronic signature(s) so that record is not compromised (i.e.) copied, detached, altered**



Electronic Signatures

- **Individual entering data shall be identified**
 - **Biometric or user name / password**
- **Certified letter stating the electronic signatures are legally binding and equivalent to a hand written signature**
- **Employee training on use and security**

Electronic Records (Continued)

- **Use of computer-generated, time stamped audit trails...provides record of actions (*key element during agency review*)**

Electronic Records and the Audit Trail

- **When a change is made the audit trail must establish:**
 - **When change was made (date & time)**
 - **Who made the change**
 - **The original data without overwriting**
 - **The new entry**
 - **Reason for the change**



Electronic Records (Continued)

- **Records are retrievable for legal proceedings and data audits**
- **Electronic records must be archived in such a way to preserve data integrity**

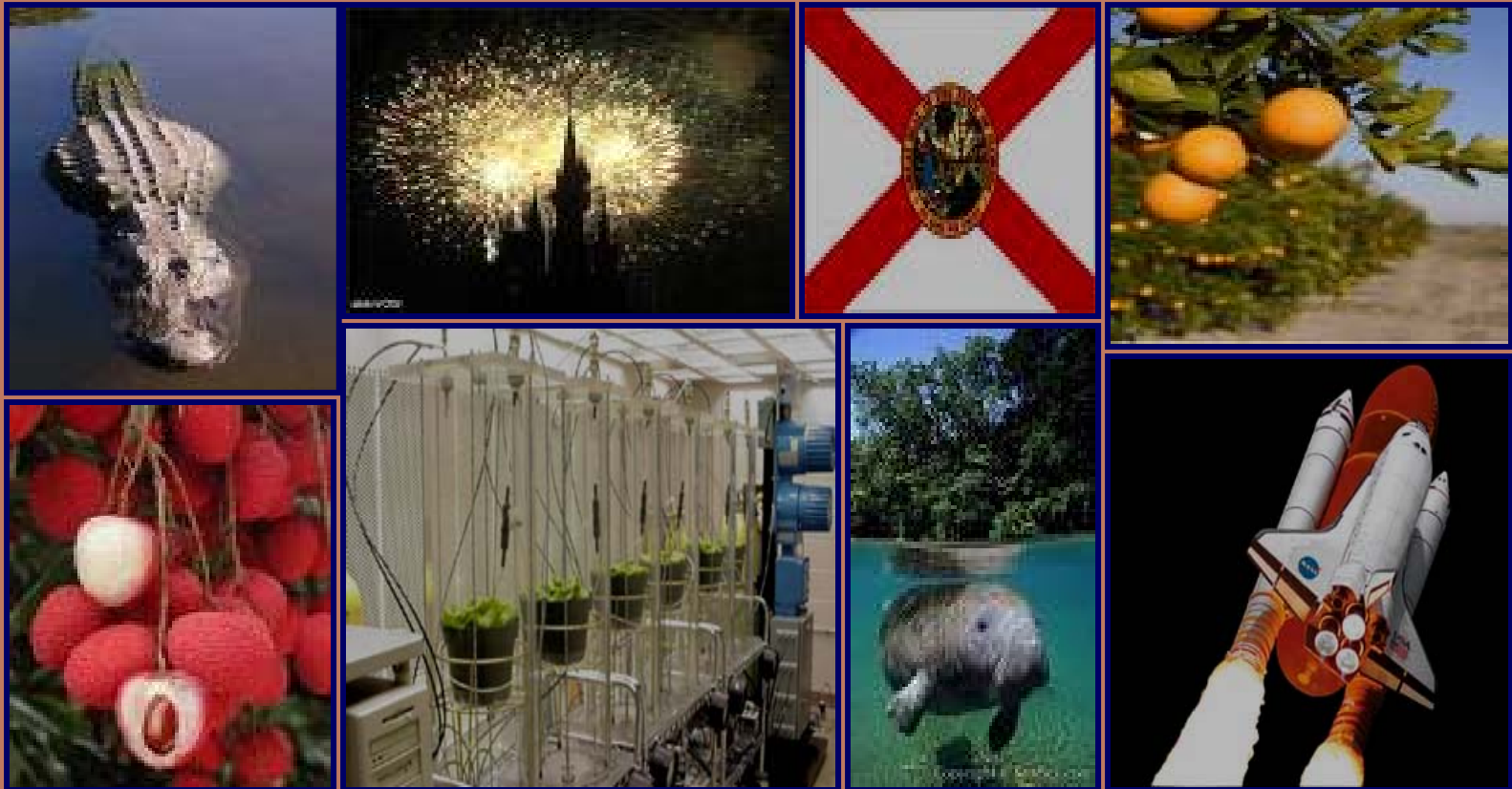
Electronic Data Archives

- **Data retention should be compliant with the GLP regulations**
 - **US EPA - 40 CFR 160.51, 160.190, 160.195, 169.2(k)**
- **Limited access**
- **Minimize deterioration**
- **Have evidence of reliability for electronic data transfer to archives**

NAIACC Annual Meeting

Orlando, Florida

January 21, 2010



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