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1. PURPOSE

The purpose of this work instruction is to provide an audit checklist for auditing computer system software as recommended in VAL007.

2. SCOPE

This work instruction applies to the audit of both commercial and custom software developers.

3. **REFERENCE DOCUMENTS**

- 3.1. ANSI/AAMI SW68:2001, Medical Device Software Software Life Cycle Processes. Association for the Advancement of Medical Instrumentation, 2001.
- 3.2. IEEE 1012-1998, IEEE Standard for Software Verification and Validation Plans.
- 3.3. IEEE 12207.0-1996, IEEE/EIA Standard: Industry Implementation of International Standard ISO/IEC 12207:1995 Standard for Information Technology – Software Life Cycle Processes.
- 3.4. ISO 9001:2000, Quality Management Systems Requirements
- 3.5. Stein, R. Timothy. <u>Computer System Risk Management and Validation Life</u> <u>Cycle</u>, Paton Press, 2006.
- 3.6. VAL007 Computer System Vendor Qualification and Management

4. **DEFINITIONS**

4.1. <u>None</u>

5. **RESPONSIBILITIES**

5.1. <u>Auditor:</u> The auditor is responsible for completing the checklist based on the audit that is conducted.

6. METHOD

6.1. Complete the information on the first page after the Table of Contents. The audit number ought to be obtained from the individual who manages the auditing of vendors.

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6.7.1. If the checklist is modified, or if it is completed electronically, refresh the table of contents on page one of the checklist.

To create or refresh the table of contents in **Windows 2000** go to the Insert menu and select "Index and Tables." Select the middle tab, "Table of Contents." If the window in the middle of the screen does not show ONLY the style "Sec. Title #.0," click the "Options" button. Delete the numbers for all of the existing styles and put a "1" for style "Sec. Title #.0." Click "OK" to close the "Table of Content Options" window. Click OK on the "Table of Contents" window to create the Table of Contents. In **Windows 2003**, go to the Insert menu, References, and "Index and Tables." Click on "Options" and the Table of Contents Options window opens. In the "Available Styles" list remove all numbers for every style except put a 1 in the "Sec. Title #.0" option field. Click OK to close each window

7. QUALITY RECORDS

7.1. The audit checklist is filed as back-up data with the audit report, but in itself is not a quality record.

Record Name	Record	Record	Storage	Filing
	Format	Owner	Location	Method
None				

(Note that the Record Owner is the function that keeps the records, and not the function that creates the record).

8. SUMMARY OF REVISION CHANGES AND JUSTIFICATION

8.1. The changes created in this revision, and their justifications are provided in the following table.

Changes	Justification
1. New document	An audit checklist is provided for auditing developers of commercial and custom developed software.

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Organization audited:	Audit date:	

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Audit information

Audit Number:

Audit Type:

Regular Follow up to CA

□ Recertification □ Special

Auditor Name	Auditor's Signature	Date

Audit area: Established quality system

Manager of Area:

Individuals interviewed:

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Organization audited: ______ Audit date: _____

Process, Activity, Document	Questions to Answer
Documented quality system	 Yes DNo Is a documented quality system in place? Yes DNo Has that system been registered by a third party as complying with a quality system standard (e.g., ISO 9001)? Which standard?
Quality manual	<i>I</i> Yes <i>I</i> No Has a quality manual been prepared, approved and trained?
Responsibilities & authority	 Yes DNo Has management defined the roles and responsibilities for quality? Yes DNo Has management given the functions responsible the independence and authority to act as necessary to ensure quality products?
Company Resources	Yes DNo Are the resources (including people, tools and infrastructure) in place to ensure a quality product?

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Organization audited: ______ Audit date: _____

Process, Activity, Document	Questions to Answer
Contract review	 Yes INo Are contracts reviewed to ensure that customer requirements are defined (including promises made to customers)? Yes INo Are contracts reviewed to ensure that the customer's requirements can be met, and that promises made to the customer can be met?
Quality system internal audits	 Yes No Are internal audits of the quality system performed by independent auditors? Yes No Are negative audit findings corrected? Yes No Is the correction verified?
Corrective action	 Yes INO Are quality issues tracked and resolved through a corrective-action system? Yes INO Are corrective actions closed in a timely manner?

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Organization audited: ______ Audit date: _____

Process, Activity, Document	Questions to Answer	
Training	 Yes INo Do training requirements exist for employees and/or job classes? Yes INo Is training performed to the defined requirements? Yes INo Are training records up to date? 	
Software development lifecycle	 Yes DNo Has a software development methodology/lifecycle been documented? Yes DNo Has a software development methodology/lifecycle been implemented? Yes DNo Has a software development methodology/lifecycle been maintained? 	
Management reviews	Yes DNo Is the effectiveness of the quality management system reviewed by management on a periodic basis?	