TRAINING UPDATE

Lab Location: Department:

GEC, SGMC & WAH Core

WAH Date Distributed: Due Date:

7/16/2019 8/15/2019

Name of procedure:

Timer Accuracy Check

SGAH.QA03 v5

Description:

There is no revision to this SOP. This training is to assure staff is aware of the process and requirements for timer checks. During the CQA inspection at SGMC, a timer that was in use did not have records of being checked since 2016.

Review the procedure and take the corresponding quiz to document your understanding of the SOP.

Document your compliance with this training update by taking the quiz in the MTS system.

SGAH.QA03 Timer Accuracy Check

Copy of version 5.0 (approved and current)

Last Approval or Uncontrolled Copy printed on 7/12/2019 10:27 1/24/2019 **Periodic Review Completed** ΑM

Next Periodic Review Printed By Leslie Barrett 1/24/2021 **Needed On or Before**

Organization Adventist HealthCare

Effective Date 2/5/2019

Comments for version 5.0

Refer to SOP Revision History section for changes

Approval and Periodic Review Signatures

Туре	Description	Date	Version	Performed By	Notes
Approval	Lab Director	1/24/2019	5.0	Nicolas Cacciabeve	
Approval	QA Leader approval	1/21/2019	5.0	Cynthia Bowman-Gholston	OK
Approval	QA review	1/21/2019	5.0	Leslie Barrett	

Version History

Version	Status	Туре	Date Added	Date Effective	Date Retired
5.0	Approved and Current	Initial version	1/21/2019	2/5/2019	Indefinite

Linked Documents

• AG.F111 Timer Accuracy Verification Log

Adventist HealthCare

Site: Shady Grove Medical Center, Washington Adventist Hospital,

Germantown Emergency Center

Title: Timer Accuracy Check

Non-Technical SOP

Title	Timer Accuracy Check	
Prepared by	Leslie Barrett	Date: 3/12/2009
Owner	Cynthia Bowman-Gholston	Date: 3/12/2009

Laboratory Approval		
Print Name and Title	Signature	Date
Refer to the electronic signature page for approval and approval dates.		
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Local Issue Date:	Local Effective Date:	

Review:	110	
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1. PURPOSE

This document describes the procedure for checking the accuracy of mechanical timers.

2. SCOPE

This procedure applies to all departments in which mechanical timers are used. Electronic and centrifuge timers are exempt from this procedure.

3. RESPONSIBILITY

The Supervisor is responsible for ensuring compliance with this process and periodic review of records as specified.

4. **DEFINITIONS**

Timer (electronic / digital): Timing device which employs an electrical circuit to measure passage of unit time. The operating speed of the circuit cannot be adjusted.

Timer (mechanical): Timing device which employs a mechanical clock-work (escapement) to measure passage of unit time. The operating speed of an escapement can be adjusted (slow<>fast).

5. PROCEDURE

A. Select a device as the standard for performing timer accuracy checks.

IF	THEN
Device is linked directly to a referenceable	Device is acceptable for use
national time standard source (e.g. cell phone)	
Device is not linked directly to a referenceable	Follow steps for using Standard
national time standard source (e.g. stopwatch)	Stopwatch below

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B. Using Standard Stopwatch

- 1. Define one stopwatch to be the standard timer.
- 2. Call a recognized time keeping organization. For example, the U.S. Naval Observatory master clock (202-762-1069 or 719-567-6742) from where the time is announced in increments.
- 3. Begin the stopwatch and monitor the time for one (1) minute.
- 4. If the stopwatch is 100% accurate to the standard, use this stopwatch to check other mechanical timers.
- 5. If it fails, discard the stopwatch and obtain a new one.
- 6. Document this stopwatch as being the standard.
- C. Label each mechanical timer with a unique identifier.

D. Testing

- 1. Test all other mechanical timers in the department using the standard stopwatch.
- 2. Test the timer for the shortest and longest intervals for which the timer is commonly used. (For example, if the timer is used to measure time intervals of 1 minute, 15 minutes and 1 hour, use 1 minute and 1 hour as the test time intervals).
- 3. Simultaneously begin the timer being tested and the standard stopwatch.
- 4. Simultaneously stop the timer and the standard stopwatch when the test interval is reached.
- 5. Calculate the percentage difference between the timer being tested and the standard stopwatch by dividing the time difference by the test time interval x 100. Round to the closest tenth.
 - Example: $\frac{1 \text{ Second}}{60 \text{ Seconds}} = .0166 \times 100 = 1.7\%$

E. Documentation

- 1. Document the following on the timer verification log:
 - Date
 - Tech initials
 - Timer ID
 - Test timer reading
 - Standard stopwatch reading
 - % Difference
 - Interpretation

Note: documentation must include evidence of supervisory review

- 2. Document on the mechanical timer as follows:
 - Date
 - Tech initials
 - Timer ID

F. Acceptable Results

All timers must agree within 5% of the standard stopwatch unless more stringent requirements are specific in the test Standard Operating Procedure.

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G. Corrective Action

If the difference between the timer being tested and the standard stopwatch is beyond acceptable limit, take the timer out of service and repair or replace it.

H. Frequency

- 1. A standard stopwatch must be calibrated at least annually.
- 2. All mechanical timers must be checked for accuracy when first put into use, annually, and after any repair unless defined more frequently in departmental procedures.

Note: Electronic or digital timers must be calibrated according to manufacturer directions.

6. RELATED DOCUMENTS

Quest Diagnostics *Procedure for Timer Accuracy Check* (QDNQA708) Timer Accuracy Verification Log (AG.F111)

7. REFERENCES

Procedure for Timer Accuracy Check, Quality Assurance Best Practice Team, Quest Diagnostics, 02/09/04.

8. REVISION HISTORY

Version	Date	Reason for Revision	Revised By	Approved By
		Supersedes SOP C043.001		
000	5/16/11	Section 5: update timekeeping phone numbers Section 9: add stopwatch documentation to log	L Barrett	C Bowman
001	7/25/12	Section 5: revise frequency to annually	L Barrett	C Bowman
002	1/30/13	Section 2: exclude centrifuge timers Section 5: add step A Section 6: add NQA SOP	L Barrett	C Bowman- Gholston
003	1/24/17	Header: add other sites Section 6: move form from section 9 Footer: version # leading zero's dropped due to new EDCS in use as of 10/7/13	L Barrett	C Bowman- Gholston
4	1/21/19	Header: update facility Section 5: correct form reference in E.1 Section 6: update form title	L Barrett	C Bowman- Gholston

9. ADDENDA AND APPENDICES

None

Form revised 3/31/0