



# National Human Exposure Assessment Survey (NHEXAS)

# Region 5 Study

# Quality Systems and Implementation Plan for Human Exposure Assessment

Research Triangle Institute Research Triangle Park, NC 27079

Cooperative Agreement CR 821902

## **Standard Operating Procedure**

NHX/SOP-820-001

**Title:** Certification of Standard Weights

Source: Research Triangle Institute

U.S. Environmental Protection Agency Office of Research and Development Human Exposure & Atmospheric Sciences Division Human Exposure Research Branch

Notice: The U.S. Environmental Protection Agency (EPA), through its Office of Research and Development (ORD), partially funded and collaborated in the research described here. This protocol is part of the Quality Systems Implementation Plan (QSIP) that was reviewed by the EPA and approved for use in this demonstration/scoping study. Mention of trade names or commercial products does not constitute endorsement or recommendation by EPA for use.

378herb00.pdf ~ R820-001.pdf

STANDARD OPERATING PROCEDURE

# RESEARCH TRIANGLE INSTITUTE POST OFFICE BOX 12194 RESEARCH TRIANGLE PARK, NC 27709-2194

Page 1 of 3

NHX/SOP-820-001

T	ľ	T	L	E:

STANDARD OPERATING PROCEDURE FOR CERTIFICATION OF

STANDARD WEIGHTS

SOURCE:

Research Triangle Institute

Post Office Box 12194

Analytical and Chemical Sciences

Research Triangle Park, NC 27709-2194

AUTHOR(s):					
Dw	Due mareill				6/14/95
				Date:	
			_,	Date:	
APPROVED B Principal Inves QA Officer:	- è ) M	Smith		Date:	6/14/95 6/15/95
	STATUS:	IN PROGRESS:			
		DRAFT:			
		FINAL VERSION:	X		

### **REVISIONS**:

No.	Date	No.	Date
0	‡	6	
1		7	
2		8	
3		9	
4		10	
5		11	

<sup>‡</sup> Effective date of this version is the date of the last approval signature; revision 0 is the original version.

### CERTIFICATION OF STANDARD WEIGHTS

# TABLE OF CONTENTS

<b>Section</b>		Page
1.0	General	3
2.0	Scope of Procedure	
3.0	Procedure	3
4.0	Documentation	3

#### 1.0 GENERAL

This Standard Operating Procedure describes the guidelines used in having weights calibrated against standards traceable to the National Institute of Standards and Technology, NIST (formerly the National Bureau of Standards, NBS).

#### 2.0 SCOPE OF PROCEDURE

Any laboratory certified by the U.S. Department of Commerce National Institute of Standards and Technology can calibrate the weights. The N.C. Department of Agriculture, Standards Division, (919-733-4311) is recommended by the ACS QA staff. The QA officer maintains a set of weights that are certified yearly. A yearly calibration is recommended for other standard weights.

#### 3.0 PROCEDURE

Before weights are taken to the laboratory, obtain a purchase order. The weights can be hand delivered or shipped by RTI. Other information needed is the density of the weights and the type of tolerance test you want conducted.

Make an appointment to have the weights calibrated. It takes at least a week to have the calibration completed. You should receive the following documents:

- 1. Report of calibration.
- 2. A copy of Standards Laboratory Certification.
- 3. Statement of Traceability.

#### 4.0 DOCUMENTATION

All certificates will be placed in a spiral notebook. The notebook will be maintained by the QA program staff.