

REPORT DETAILS

Report No. 70-1113/84-09

1. Key Persons Contacted

Licensee Employees

- [Redacted] Manager, Regulatory Compliance
- [Redacted] Manager, Fuel Manufacturing
- [Redacted] Acting Manager, Licensing and Nuclear Materials Management
- [Redacted] Manager, Fuel Chemical Operations
- [Redacted] Manager, Projects and Planning
- [Redacted] Acting Manager, Manufacturing Technology and Engineering Operations
- [Redacted] Acting Manager, Fuel Fabrication
- [Redacted] Senior Engineer, Measurements and Statistics
- [Redacted] Engineer, Automation Technology
- [Redacted] Manager, Fuel Chemical Quality Assurance
- [Redacted] FCQA, Process Control Engineer
- [Redacted] Senior Engineer, Automation Technology
- [Redacted] Analyst, Licensing and Nuclear Materials Management
- [Redacted] Analyst, Licensing and Nuclear Materials Management
- [Redacted] Specialist, Licensing and Nuclear Materials Management and SS Representative
- [Redacted] Supervisor, Fuels Support

The inspector also interviewed several other licensee employees.

*Denotes those present at the exit interview.

2. Exit Interview

The inspection scope and findings were summarized on July 20, 1984, with those persons indicated in Paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

In the area of NDA measurements, no previous inspection findings were pending at the time of this inspection.

4. Measurements and Statistical Controls (85206)

a. Incinerator Active Box Monitor (ABM)

(1) System Description and Scope

The General Electric Company, Wilmington, North Carolina, incinerator facility incinerates and measures the SNM content of combustible waste materials generated in various plant processing areas. The combustible waste materials to be incinerated are

segregated from noncombustible waste materials in the facility decontamination room. The segregated combustible and noncombustible waste materials are measured for accountability purposes by the Elephant Gun measurement system. The incinerator facility operates

The facility incinerator measurement system is comprised of measurement systems that are controlled by a single dedicated computer, called ICAMS (Incinerator Criticality Accountability Measurement System).

The following measurement systems use independent measurements to control the quantity of SNM processed by the incinerator.

At the time of this inspection,

At the time of this inspection, rather than qualify the ABR measurement system for accountability measurements, the licensee had decided to place operating emphasis upon reducing the backlog of waste boxes to be incinerated.

Currently the facility is generating [redacted] boxes of scrap/waste per week and is incinerating [redacted] boxes per week. With a backlog of [redacted] boxes on hand as of June 9, 1984, it is anticipated that [redacted] will be required to process the backlog of waste boxes. The licensee has no immediate plans to qualify the ABM measurement system until the backlog of waste boxes has been reduced to an acceptable level.

(b) The In Incinerator Monitor (IIM) consists [redacted]

[redacted] For Criticality Controls, the maximum acceptable control limits indicated in paragraph 4.a(1) above, were established by testing prior to startup of the facility.

(c) The Active Can Monitor (ACM) is comprised of [redacted]

[redacted] At this time, the ACM is the only incinerator NDA measurement system qualified for accountability measurements.

(2) ABM Standards and Calibrations

At the time of this inspection, the licensee was using twelve NDA standards that had been fabricated, tested and approved for use in performing NDA accountability measurements with ABM measurement system. The matrix materials used in fabricating these standards contained [redacted]

[redacted] that had been withdrawn from the facility stores especially for this project. The SNM used in fabricating these standards was well characterized UO₂ powder that had been analyzed by the facility Chemet and Ledoux laboratories. Traceability of these standards to a National Measurement System was accomplished through analytical techniques employed by the measuring laboratories to measure NBL standard UO₂ material. A listing of all facility NDA standards used to perform measurements by the ACM is presented in Table 1. Several of these standards contain similar quantities of SNM whose densities vary over a wide range.

For the ABM measurement system, calibration curves for passive U-238 measurements were being produced semiannually using five NDA standards that covered the expected measurement range of the system. The data from these calibration standards were best fitted to a calibration curve using [redacted]. The quality of this calibration curve is tested daily by measuring a single NDA standard. To the extent observed during their inspection, no deviations from approved operating procedures for standards fabrication and calibration measurements were detected.

(3) ABM Measurement Techniques

At the time of this inspection, the ABM measurement system was operating three shifts per day for five days per week as directed by Temporary Operating Instructions (TOI). The ABM measurement system is designed to minimize operator influence on the measurements produced. After entering a minimum number of operating parameters,

[redacted]

Since the ABM measurement system had not been qualified for accountability measurements, plus the fact that the facility was in the midst of physical inventory preparations and had no boxes on hand that had been previously measured, the system was not independently tested for measurement quality during this inspection.

Replicate measurements of process waste materials and NDA standards normally used to calculate random and systematic error components were not being performed and are not required since the system has not been approved for accountability measurements.

b. SAM-II Enrichment Verification

(1) System Description and Scope

The licensee routinely employs SAM-II enrichment analyzer measurement systems to verify enrichments of previously made measurements of UO2 production powder from blend area operations and non-tampersafed items on hand at the time of physical inventories. At the time of this inspection, [redacted] enrichment analyzer systems, employing [redacted] units, were being used to perform enrichment verification measurements.

[redacted] units were being used in the [redacted] area; [redacted] unit was being used in the [redacted] area; [redacted] units were being used in the [redacted] area and [redacted] units

were being used in the [redacted] room.

[redacted] unit, which is qualified for accountability measurements and located in the facility [redacted] area, was not examined during this inspection.

Each enrichment measurement verification system is comprised of a SAM-II Unit equipped with 2"x0.5" NaI(Tl) detector. Some units were equipped with

(2) SAM-II Standards and Calibrations

At the time of this inspection, a set of [redacted] NDA standards were being used by the [redacted] SAM-II units performing verification of previously made enrichment measurements. This set of standards had been fabricated from production UO₂ powder and were contained in 3-gallon buckets. The UO₂ powder contained in these standards had been analyzed by the facility Chemet and Ledoux laboratories and was determined to be traceable to a National Measurement System through analytical techniques employed by the analyzing laboratories. All standards had been tested and approved prior to their use in performing calibrations for NDA measurements. For units operating in the MK-III microprocessor mode, calibrations were performed with three standards fitted to a calibration curve by linear regression techniques. For units operating as SAM-II units, calibrations were performed by point calibration technique employing one NDA standard. All calibrations were being performed at least quarterly or more often, for point calibration units, as changes in enrichments dictated. A listing of approved NDA standards used by the SAM-II enrichment verification units is presented in Table-II. No deviations from approved procedures were noted.

(3) SAM-II Measurement Techniques

Measurement techniques employed by the SAM-II units routinely performing enrichment verification of previously made measurements were not examined during this inspection. Although these SAM-II units were operating [redacted] shifts per day for [redacted] days per week, the enrichment verification measurements being performed were not being used for accountability purposes. For this reason, the quality of measurement performance was not tested during this inspection.

c. License Conditions Review

Docket 70-1113 License Conditions to Materials and Plant Protection Amendment MPP-3 revised and amended December 20, 1983 for License No. SNM-1097 were reviewed during this inspection. The licensee was determined to be complying with the six license conditions applicable to SNM measurements by the ABM and SAM-II verification measurement systems.

d. FNMC Plan Review

A review of the facility FNMC plan applicable to NDA measurement by the ABM and SAM-II verification measurement systems was conducted during this inspections. Sections 1.0 Organization, 3.0 Measurements, 4.0 Measurement Control Program, 8.0 Management and Appendix C-3, Specially Accepted Safeguards systems, provide descriptions and methods used to determine the U-235 content of SNM measured by NDA techniques at the facility. To the extent of this review and followup inspection observations, the licensee was determined to be following their approved FNMC plan as required.

e. Standard Operating Procedures (SOP) Review

Several facility operating groups are continuously developing, implementing, altering, and updating SOPs for satisfactory operations, measurement controls, and maintenance functions associated with the ABM and SAM-II verification measurement systems. To the extent reviewed and operational conditions observed, the licensee was judged to be complying with the requirements of the following SOPs.

(1) ABM Measurement System Procedures

- (a) Report No. AT-82-667, Standards, Active Box Monitor-Active Can Monitor, dated February 1983.
- (b) Temporary Operating Instructions (TOI) No. A-837, Extension 1, Incinerator Operation, dated July 8, 1984.
- (c) Quality Notice (QN) No. F-G-1155, Revision 0, Qualification of the Active Box Monitor (ABM), dated December 9, 1982.
- (d) Q.N. No. F-G1073, Revision 0, Qualification Test for the Active Box Monitor and the Active Can Monitor, dated February 1, 1982.

(2) SAM-II Verification Measurement System

- (a) Quality Control Inspection Instructions (QCII) No. 2.5.2.7, Revision 0, SAM-II System and Associated Equipment, dated June 18, 1984.

- (b) Product/Process Quality Plan (PPQP) No. 2.6.1, Revision 13, Enrichment Verification Via the SAM-II System and Associated Equipment, dated June 18, 1984.
- (c) Process Requirement Operating Document (PROD) No. 20.1, UO2 Warehouse Powder Receiving Verification Via SAM-II, dated June 22, 1984.
- (d) Quality Control Operating Requirements (QCOR) No. 2.3.1.5, Revision 4, UO2 Warehouse Powder Receiving and Enrichment Verification Via SAM-II, dated June 22, 1984.
- (e) QCOR No. 2.1.1.14, Revision 19, Powder Screen and Pack, dated February 28, 1983.
- (f) Quality Information Equipment Plan (QIEP) No. B-20.3, Revision 3, Operation and Maintenance of SAM-II Assay Meter, dated November 9, 1982.
- (g) Q.N. No. 1199, Revision 0, SAM-2, MK-3, Microcontroller 3 Point Calibration Qualification, dated June 24, 1980.

(3) Training Procedure

- (a) Practices and Procedures (P&P) No. 70-32, Revision 9, Qualification of QC Inspection, Examination and Test Personnel, dated February 9, 1983.

f. Operator Training and Qualifications

(1) ABM Measurement System

Since the ABM measurement system has not been qualified for accountability measurements, each facility operating group associated with the system provides operator training guidance. [redacted] operators from the Fuels Shop Operations Unit are used to operate the system and are not required to be officially certified as qualified at this time.

(2) SAM-II Verification Measurement System

Training of operators for SAM-2 enrichment verification measurements is based upon the criteria specified by ANSI/ASME 45.2.6-1978, Qualification of Inspection, Examination, and Testing Personnel for Nuclear Power Plants Requirements. Each operator receives special training on the operation of the equipment and must show a thorough understanding of measurements, operations and maintenance procedures associated with enrichment verification measurements. At the time of this inspection, [redacted] operators were qualified to perform enrichment verification measurements.

Training tests results and operator certifications were documented.

5. Facility Organization (85202)

The licensee's management organization provides a system of checks and balances for accountability measurements. The facility operations, measurements and accounting groups have different reporting avenues to responsible management. The custody, measurements and accounting functions for SNM control do not report directly through the same supervisory line. The Licensing and Nuclear Materials Management (LNMM) group coordinates the overall functions for accounting for SNM at the site. At the time of this inspection, the following groups were responsible for measurement and accounting operations associated with the facility incinerator ABM and ACM measurement systems and the SAM-2 enrichment verification measurement systems.

a. ABM and ACM Measurement Systems



b. SAM-II Enrichment Verification Measurement Systems

(1)

(2)

(3)

~~CONFIDENTIAL~~
19-078-1220

(4)


6. Physical Inventory Preparations(85212)

On August 13, 1984, the licensee has scheduled their annual physical inventory to account for all SNM materials at the site. In preparation for the physical inventory exercise, the licensee developed a schedule of events to assure that no component essential to the preparations, listing, and accounting for SNM had been overlooked. Inventory preparations were discussed with the licensee and observations of completed scheduled preparation activities was conducted during this inspection. Approximately [redacted] physical inventory teams will be used to list the physical inventory. The inspector attended a training session for inventory teams and to the extent observed, the licensee was determined to be following approved inventory instructions written especially for the August 13, 1984 physical inventory.

7. Independent Inspection Effort (92713)

A tour of the manufacturing process areas was conducted during this inspection. Observations and examinations of procedural requirements in the areas of physical inventory preparations, nuclear safety, and criticality items were emphasized during the tour. To extent observed and examined, no deviations from approved procedures were detected.

TABLE 1
ABM MEASUREMENT STANDARDS
(70-113/84-09)

<u>ABM Standard No.</u>	<u>Net Weight (lbs)</u>	<u>Enrichment U-235 (%)</u>	<u>U-235 (Gm's)</u>	<u>U-238 (Gm's)</u>
0(1)	670	-----	---	---
1(2)	700			
2(4)	1185			
3	743			
4(2)	701			
5(2)	700			
6	602			
7	798			
8	695			
9(2)(3)	719			
10	---			
11(4)	---			
12(4)	---			
26(4)	---			

- (1) Contains no SNM.
- (2) Used as calibration standards.
- (3) Standards 9 and 10 are combined and used as standard 910.
- (4) These standards are considered developmental standards and are not used for IIM balance measurements.

TABLE 2
SAM-II ENRICHMENT VERIFICATION STANDARDS
(70-113/84-09)

<u>SAM-II Standard No.</u>	<u>Net Weight (Gm's)</u>	<u>Enrichment U-235 (%)</u>	<u>Uranium (Gm's)</u>	<u>U-235 (Gm's)</u>
SAMSTD0101	14671			
0102	13831			
0103	14511			
0104	14411			
0105	15341			
0106	15811			
0107	14581			
0108	14371			
0109	15791			
0116	14730			
0117	14690			
0122	16323			
0123	15013			
0124	5013			
0125	4213			



LMCS TRANSACTION DESCRIPTIONS

TRANSACTION

100 -

[REDACTED]

2.790!

FUNCTIONS:

[REDACTED]

MODIFICATIONS:

- 1) Modified the code to eliminate the repetitive input of header information for multiple requests from the same user.

104 -

[REDACTED]

FUNCTIONS:

[REDACTED]

MODIFICATIONS:

None.

105 -

[REDACTED]

FUNCTIONS:

[REDACTED]

Information in this record was deleted
 in accordance with the Freedom of Information
 Act, exemptions 4
 FOIA- 8788

Pertinax

N-8 3

LMCS TRANSACTION DESCRIPTIONS

TRANSACTION

MODIFICATIONS:
None.

110 -



FUNCTION:

MODIFICATIONS:

- 1: Modified T110 to print special OOA/OOC report to printer and disk file.

111 -



FUNCTION:

MODIFICATIONS:
None.

TRANSACTION

112

[REDACTED]

FUNCTIONS:

[REDACTED]

MODIFICATIONS:

1:

[REDACTED]

114

[REDACTED]

FUNCTIONS:

[REDACTED]

MODIFICATIONS:

1: Changed nondescriptive list names to the actual lab name.

information in this record was deleted in accordance with the Freedom of Information Act, exemptions

FOIA

87-88

N-8

[REDACTED]

LMOS TRANSACTION DESCRIPTIONS

TRANSACTION

118



FUNCTION:



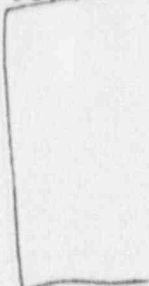
MODIFICATIONS:

- 1: Changed nondescriptive list names to the actual lib name.
- 2: Added new data printout routines.
- 3: Added new data archive routines.

119



FUNCTION:



MODIFICATIONS:

None.

120



FUNCTION:



MODIFICATION
No.

LMCS TRANSACTION DESCRIPTIONS

TRANSACTION

121 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

122 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

130 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

5

LINE TRANSMISSION DESCRIPTIONS

TRANSACTION

135 -

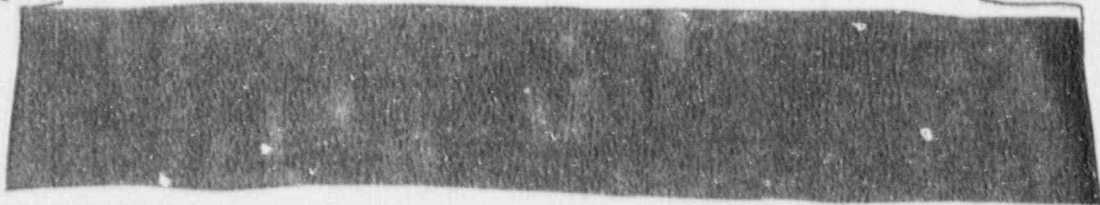


MODIFICATIONS:
None.

141 -



FUNCTION:



MODIFICATIONS:
None.

170 -



FUNCTION:



MODIFICATIONS:
None.

TRANSACTION

210

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

- 1: Changed non-descriptive list notes to the actual job name.

215

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

- None.

240

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

- 1:

[REDACTED]

LMCS TRANSACTION DESCRIPTIONS

TRANSACTION

310 -

[REDACTED]

FUNCTIONS:

[REDACTED]

MODIFICATIONS:
None.

320 -

[REDACTED]

FUNCTIONS:

[REDACTED]

MODIFICATIONS:
None.

330 -

[REDACTED]

FUNCTIONS:

[REDACTED]

MODIFICATIONS:
None.

340 -

[REDACTED]

FUNCTIONS:

[REDACTED]

MODIFICATIONS:
None.

LHOS TRANSACTION DESCRIPTIONS

TRANSACTION

360

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

361

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

363 - VERIFIES INITIALIZATION OF GEOMETRIC DENSITY SAMPLES

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

380

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

TRANSACTION

670

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

672

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

669

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

701A

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None

LINE TRANSACTION DESCRIPTIONS

TRANSACTION

700

FUNCTIONS:

MODIFICATIONS:
None.

705

FUNCTIONS:

MODIFICATIONS:
None.

705A

FUNCTIONS:

MODIFICATIONS:
None.

706

FUNCTIONS:

MODIFICATIONS:
None.

LHCS TRANSACTION DESCRIPTIONS

TRANSACTION

707

FUNCTION:

MODIFICATIONS:

None.

710

FUNCTION:

MODIFICATIONS:

None.

710A

FUNCTION:

MODIFICATIONS:

None.

714

FUNCTION:

MODIFICATIONS:

None.

LNCS TRANSACTION DESCRIPTIONS

TRANSACTION

700 - [REDACTED]
FUNCTION:
[REDACTED]
MODIFICATIONS:
None.

700 - [REDACTED]
FUNCTION:
[REDACTED]
MODIFICATIONS:
None.

730 - [REDACTED]
FUNCTION:
[REDACTED]
MODIFICATIONS:
None.

730A - [REDACTED]
FUNCTION:
[REDACTED]
MODIFICATIONS:
None.

D

LMS TRANSACTION DESCRIPTIONS

TRANSACTION

731

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

740

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

740A

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

750

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

13

TRANSACTION

759

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

760

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

760A

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

763

[REDACTED]

FUNCTION:

[REDACTED]


MODIFICATIONS:

None.

LMCS TRANSACTION DESCRIPTIVE


TRANSACTION

717A - 

FUNCTION:


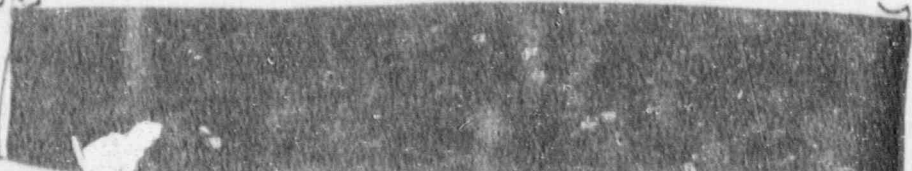
MODIFICATIONS:
None.

769 - 

FUNCTION:


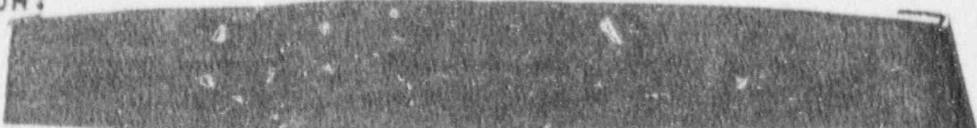
MODIFICATIONS:
None.

759A - 

FUNCTION:


MODIFICATIONS:
None.

775 - 

FUNCTION:


MODIFICATIONS:
None.

D

LAND TRANSACTION DESCRIPTIONS

TRANSACTION
.....

775A -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

776

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

776A -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

777 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

!

LHCC TRANSACTION DESCRIPTIONS

TRANSACTION
DESCRIPTION

780 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

7804 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

790 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

799 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

LHCB TRANSACTION DESCRIPTIONS

TRANSACTION

820 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

821 -

[REDACTED]

FUNCTION:

7621 is no longer in use.

MODIFICATIONS:

None.

830 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

840 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:

None.

LHDS TRANSACTION DESCRIPTIONS

TRANSACTION

846

FUNCTION:

MODIFICATIONS:
None.

848

FUNCTION:

MODIFICATIONS:
None.

847

FUNCTION:

MODIFICATIONS:
None.

860

FUNCTION:

MODIFICATIONS:
None.

LHCS TRANSACTION DESCRIPTIONS

TRANSACTION

819 -

FUNCTION:

MODIFICATIONS:
None.

870 -

FUNCTION:

MODIFICATIONS:
1: Per lab instructions, this transaction is no longer used.

871 -

FUNCTION:

MODIFICATIONS:
None.

872 -

FUNCTION:

MODIFICATIONS:
None.

LMCS TRANSACTION DESCRIPTIONS

TRANSACTION

726

FUNCTION:

MODIFICATIONS:
None.

777

FUNCTION:

MODIFICATIONS:
None.

874

FUNCTION:

MODIFICATIONS:
None.

881

FUNCTION:

MODIFICATIONS:
None.

LINE TRANSACTION DESCRIPTIONS

TRANSACTION

891 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

892 -

[REDACTED]

FUNCTION:

This transaction does not work.

MODIFICATIONS:
None.

902 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

903 -

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

LNCS TRANSACTION DESCRIPTIONS

TRANSACTION

941

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

945

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

948

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

950

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

LIOS TRANSACTION DESCRIPTIONS

TRANSACTION
DESCRIPTION

952

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

953

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

953

[REDACTED]

FUNCTION:

[REDACTED]

MODIFICATIONS:
None.

970

[REDACTED]

FUNCTION:

[REDACTED]

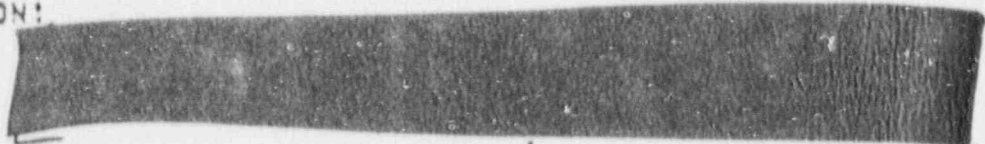
MODIFICATIONS:
None.

LMCS TRANSACTION DESCRIPTIONS

TRANSACTION

970 - MESSAGE LIST REPORT

FUNCTION:



MODIFICATIONS:

None.

972A - MESSAGE LIST DUMP

FUNCTION:

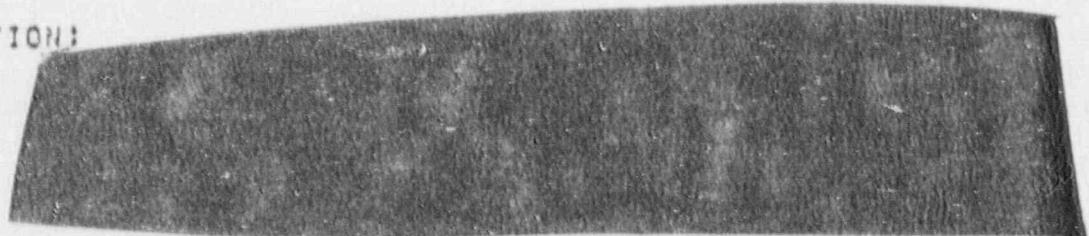


MODIFICATIONS:

None.

975 - UPDATE LIST RECORDS

FUNCTION:



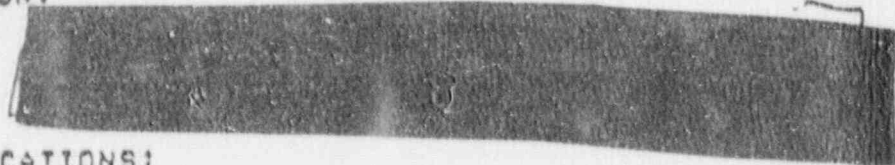
MODIFICATIONS:

None.

976 -



FUNCTION:





MODIFICATIONS:

None.

LINES TRANSACTION DESCRIPTIONS



TRANSACTION

987

FUNCTION:




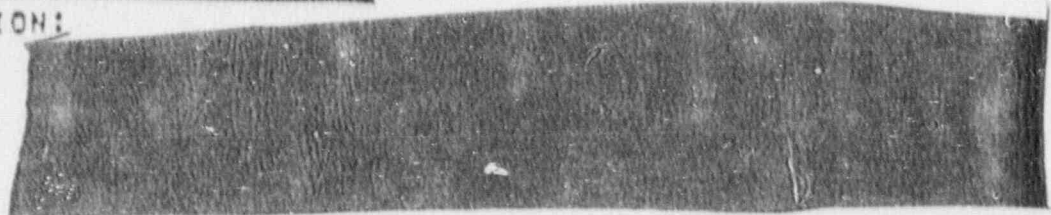
MODIFICATIONS:
None.

988

FUNCTION:




MODIFICATIONS:
None.

981

FUNCTION:



MODIFICATIONS:
None.

992

FUNCTION:


This transaction is not used.

MODIFICATIONS:
None.

LHCE TRANSACTION DESCRIPTIONS

TRANSACTION

999 -

FUNCTION:

MODIFICATIONS:

None.

999 - REQUEST ASSISTANCE

FUNCTION:

999 is no longer in use.

MODIFICATIONS:

None.

INHEMET CONTROL AREA SAMPLE REPORT

* MAIL TO: A7-C/A

PAGE: 1
DATE: 24-APR-82
TIME: 21:20

SAMPLE # : 260640 NO. OF TRAYS : 2

SAMPLER'S FIX # : 22496
REQ. COMPONENT : 447
DOCUMENT NO. : FROD 6014
CONTAINER/LOT # : 1208-ROCK

DATE SAMPLED : 22-APR-82
TIME SAMPLED : 08:00
C/EN : FRO
MATERIAL CLASS : 1 H.2
SOURCE : 2-708

ANLE METHOD

CODE EX NAME

RESULT

UNITS

TECH

COMPLETED

20 00 FROD ISOTOPICS
205 00 O/H IN U

1.191 & 0.425
1.191 O/H IN U



2-APR-82
2-APR-82

Please Add this figure -
O/H Support To be 2.053

2/21/82
@ 2230

And out () this is fixed
dist: throw this

4/24/82 Sam. - 902/103
1510-2330

DK

They use Super. Passw.

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6+7C
FOIA- 87-88

FOIA-87-88 -Enc

0-1

CALIBRATION/VERIFICATION LOG
ENRICHMENT ANALYZERS

Time _____
DATE 8-19-82
ANALYZER # 4

TIME	VERIFICATION/CALIBRATION																M	K		
	BLANK		.715 VERIF./CAL.				1.454		2.223 VERIF./CAL.				2.999		3.978 VERIF./CAL.					
	U	B	Enr.*	U	B	U	B	Enr.*	U	B	U	E	Enr.*	U	B	U			B	
2300																				
24																				
0145																				
0221	-	-	.715					2.238					4.038					10136 / 197		
0337																				
0412	-	-	.714					2.237					4.053					10241 / 1520		
0515																				
060550	-	-	.712					2.224					3.986					29679 / 1.993		
07																				
0832	12.5		708					2.150					3.957							
09																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions FOIA 89-88

New Enriched
Planned by
Typical

O.2

* CIRCLE OUT OF ALARM VALUES

AMP SETTING CHANGES:			
TIME	VOLTS	COARSE	FINE
2300			

CALIBRATION/VERIFICATION LOG
ENRICHMENT ANALYZERS

Friday
DATE 8-20-82
ANALYZER # 4

TIME	VERIFICATION/CALIBRATION															M	K
	BLANK		.715 VERIF./CAL.			1.454		2.223 VERIF./CAL.			2.999		3.978 VERIF./CAL.				
	U	B	Enr.*	U	B	U	B	Enr.*	U	B	U	B	Enr.*	U	B		
2300																	
24																	
01																	
02																	
03																	
04																	
05																	
06																	
07																	
08																	
09																	
10	Checked @ 10 min T. Run 6 Hi STDs to Mi. Cal. Enr. by [REDACTED]																
11 21																	
12 50			.709					2.212					3.24				1270 1.714
13																	
14 06	6.1		.71					2.217					3.24				1270 1.714
15 23																	1270 1.714
16 57			.701					2.219					3.24				1270 1.714
17																	
18																	
19																	
20																	
21 47																	1270 1.714
22 41			.709					2.219					3.24				1270 1.714

* CIRCLE OUT OF ALARM VALUES

AMP SETTING CHANGES:			
TIME	VOLTS	COARSE	FINE
2300			

502

CALIBRATION/VERIFICATION LOG
ENRICHMENT ANALYZERS

DATE 8-21-82

ANALYZER # 6

TIME	VERIFICATION/CALIBRATION													
	BLANK		.715 VERIF./CAL.		1.454		2.223 VERIF./CAL.		2.999		3.978 VERIF./CAL.		M	K
	U	B	Enr.*	U	B	U	B	Enr.*	U	B	U	B		
2304														
2404														
01														
0243														
03														
04														
0524														
06														
07														
08														
09														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														

Handwritten notes and marks at the bottom of the table, including asterisks and illegible scribbles.

AMP SETTING CHANGES:

TIME	VOLTS	COURSE	FINE
2300			

* CIRCLE OUT OF ALARM VALUES

SC-338 RI Ref: SCP-401 Issued: 5/7/82 Approved



CALIBRATION/VERIFICATION LOG
ENRICHMENT ANALYZERS

DATE 8-22-82

ANALYZER # 4

TIME	VERIFICATION/CALIBRATION															M	K
	BLANK		.715 VERIF./CAL.			1.454		2.223 VERIF./CAL.			2.999		3.978 VERIF./CAL.				
	U	B	Enr.*	U	B	U	B	Enr.*	U	B	U	B	Enr.*	U	B		
2300																	
24																	
01																	
02																	
03																	
04																	
05																	
06																	
07																	
08																	
09																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	

TAGGED OUT


* CIRCLE OUT OF ALARM VALUES

AMP SETTING CHANGES:			
TIME	VOLTS	COARSE	FINE
2300			

CL-338 RI

Ref: SCP-401

Issued: 5/7/82

Approved: 



Note Tim

2/24/82 @ 10:30
This was second try

The attempt to identify
new Minicon to

put in qualification to
the ANA 74-1

very careful what was
said in press

at this time

very cool to me

Caught him at his game

What will happen to

He said to

The was called in
asked about the release
of samples - What inst.
was not qualified. Will
he be documented or dis-
missed? Why did
T.N.N.

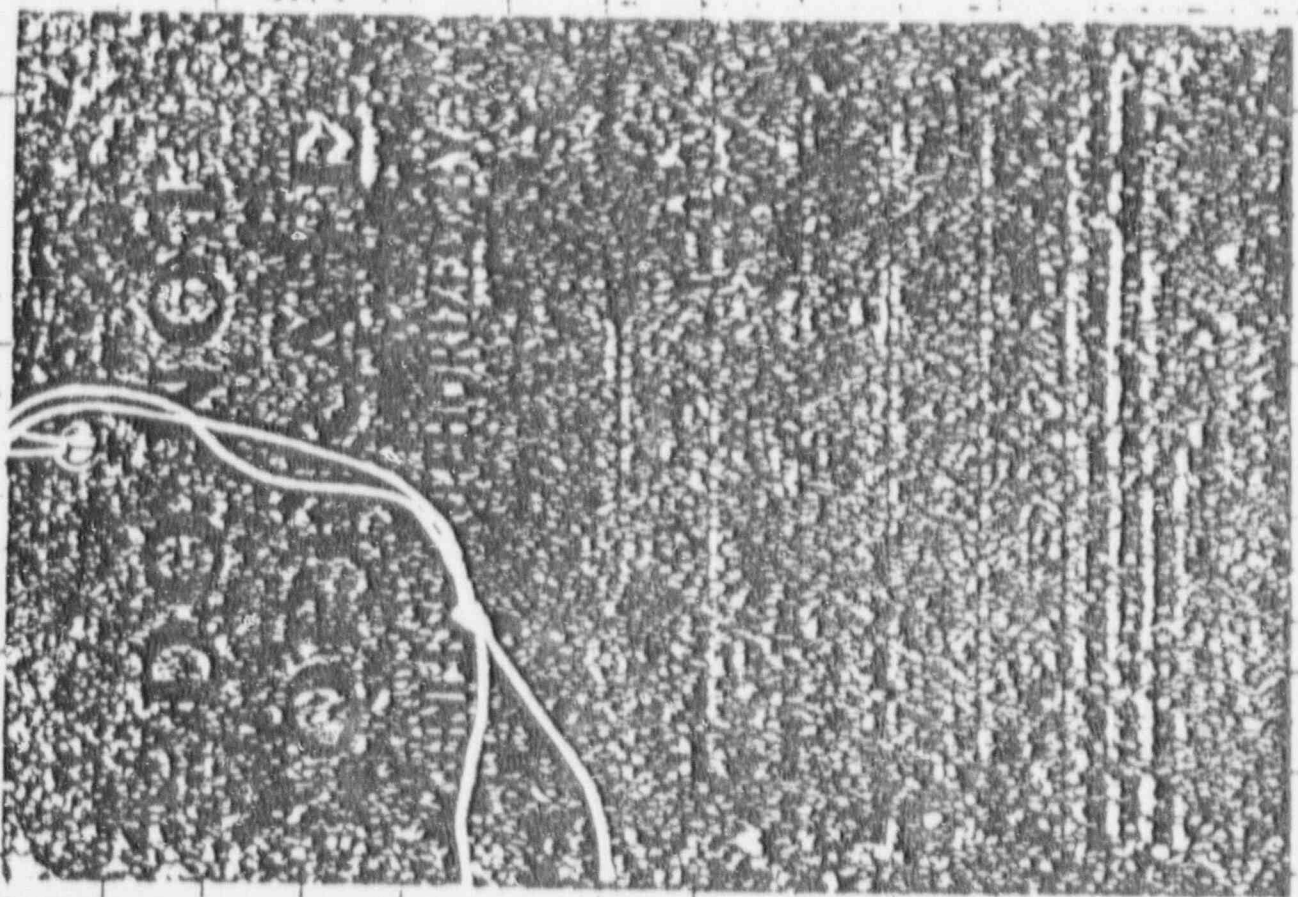


TABLE FOR SCP-401

ANALYZER #	(NP-80 Series)	
	REGRESSION MODEL COEFFICIENT	
	SLOPE	INTERCEPT
011	.999535	-.015054
012	1.000361	-.011828
013	1.003814	-.014472
014	— DOWN —	

(NP-80 Series)			
BIAS ADJUSTMENT FACTORS AND MINIMUM "U" COUNT LIMITS			
ANALYZER #	SLOPE	INTERCEPT	MINIMUM "U" COUNT
011	1.00593	-.00422	279269
012	1.00906	-.00522	289827
013	1.00544	-.00599	290003
014	— DOWN —		287141

NOTE: Check each calibration. The "B" counts for the lowest enrichment must have a "B" count greater than the "B" count for the highest enrichment.

APPROVED BY

CALIBRATION/VERIFICATION LOG
ENRICHMENT ANALYZERS

M^r
DATE 8-23-82
ANALYZER #

TIME	VERIFICATION/CALIBRATION															M	K
	BLANK		.715 VERIF./CAL.			1.454		2.223 VERIF./CAL.			2.999		3.978 VERIF./CAL.				
	U	B	Enr.*	U	B	U	B	Enr.*	U	B	U	B	Enr.*	U	B		
2300																	
24																	
01																	
02																	
03																	
04																	
05																	
06																	
07																	
08																	
09																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	

Handwritten: 1 AC SET OUT

21 *71* 22 *226* 23 *555*

* CIRCLE OUT OF ALARM VALUES

AMP SETTING CHANGES:			
TIME	VOLTS	COARSE	FINE
2300			

CL-338 R1 Ref: SCP-401 Issued: 5/7/82 Approved:

1550
 0531
 17
 0.37
 0.45
 0.50
 0.55
 0.60
 0.65
 0.70
 0.75
 0.80
 0.85
 0.90
 0.95
 1.00
 1.05
 1.10
 1.15
 1.20
 1.25
 1.30
 1.35
 1.40
 1.45
 1.50
 1.55
 1.60
 1.65
 1.70
 1.75
 1.80
 1.85
 1.90
 1.95
 2.00
 2.05
 2.10
 2.15
 2.20
 2.25
 2.30
 2.35
 2.40
 2.45
 2.50
 2.55
 2.60
 2.65
 2.70
 2.75
 2.80
 2.85
 2.90
 2.95
 3.00
 3.05
 3.10
 3.15
 3.20
 3.25
 3.30
 3.35
 3.40
 3.45
 3.50
 3.55
 3.60
 3.65
 3.70
 3.75
 3.80
 3.85
 3.90
 3.95
 4.00
 4.05
 4.10
 4.15
 4.20
 4.25
 4.30
 4.35
 4.40
 4.45
 4.50
 4.55
 4.60
 4.65
 4.70
 4.75
 4.80
 4.85
 4.90
 4.95
 5.00

PRODUCTION
 8U/g ISOTOPIC
 6 O/U RATIO

508
 11
 3

CONTAINER #	CRUC POS.	TARE WGT.	UO ₂ WGT.	TARE + U ₃ O ₈	TARE + SOLUTION	TIME #	AVG #	MEAS. U ₂₃₅	CALC. U ₂₃₅	O/U RATIO
24041100573	1	27.0577	4.4510	31.7609	54.1006	7825	4	3.385	3.600	2.048
33061100550	2	26.8962	4.5066	31.0740	48.5457	7871	1	6.162	3.550	2.425
38061100603	3	27.0117	4.4071	31.4762	51.8305	7941	1	5.326	3.522	2.608
20061100614	4	30.0093	4.5747	34.5784	56.7261	7925	1	2.626	2.035	2.324
20061100619	5	27.0244	4.5706	31.6354	52.2110	7839	1	2.805	2.021	2.257
39511006206	6	26.3798	4.5060	31.0315	53.5909	7964	1	5.002	3.884	2.095
33021100607	7	26.7095	4.5003	31.2872	55.2890	7940	1	4.287	3.204	2.315
38911006093	8	27.4973	4.4854	32.1410	54.2446	7949	1	4.871	3.717	2.042
20051100616	9	30.5344	4.4993	35.2441	57.4023	7922	1	2.775	2.121	2.041
38011006091	10	27.8424	4.4535	27.4982	49.4093	7865	1	4.380	3.325	2.055
31021100611	11	25.2851	4.5019	32.5250	55.3415	7903	1	4.030	3.103	2.043
317001100617	12	25.4071	4.4552	30.0404	51.1144	7916	1	2.307	1.654	2.09

8-19-82
 OX. IN 8/20
 OX. OUT 8/20
 8/20
 2/11/82
 8/21
 8/21
 8/21
 8/21
 8/21

ISOTOPIUM
g/g ISOTOPIUM
& O/U RATIO

3/10/1

Return on the same day
3:45 AM
3/10/1

15

17
AY # 1

CONTAINER #	CRUC POS.	TARE WGT.	UO ₂ WGT.	TARE + U ₃ O ₈	TARE + SOLUTION	TUBE #	ANA #	MEAS. U ₂₃₅	CALC. U ₂₃₅	O/U RATIO
3300RUB0033	1	27.0440	4.4772	31.6194	53.8228	7604	X1	4.182	3.258	2.331
3000AP9650	2	25.7725	4.4871	33.4117	55.7562	7166	112	3.892	3.002	2.096
3000AP967	3	28.6117	4.5076	33.2107	51.6288	7770		4.015	3.004	7.068
3000AP9651	4	29.4243	4.4854	34.0817	50.0000	7				2.208
3302174028	5	29.3505	4.5057	34.0235	56.6852	7572		4.120	3.192	2.017
3302174029	6	26.4067	4.4765	31.0167	53.1635	7740		4.078	3.101	2.036
3302174030	7	27.8420	4.5054	36.5119	51.3840	7026		4.199	3.235	2.042
3302174031	8	29.2105	4.5151	33.2523	55.2552	7178		4.380	3.222	2.034
3000AP9695	9	25.5568	4.4508	30.2119	54.3281	7563		4.491	3.214	2.017
3000AP9669	10	30.5070	4.5735	37.0002	56.3552	7155		4.078	2.978	2.067
3000AP9684	11	29.6626	4.5005	34.3204	52.0002	7				2.066
3950NP0372	12	26.4387	4.5059	31.0724	51.0625	7020		5.647	3.937	2.093
								.714	2.274	3.971
8-20-82		OX. IN 8/20	OX. OUT 5/20	9/10	7-21			8-21	5-21-82	
		16/20	15/20	4/25	7-23			11/16		


CALIBRATION/VERIFICATION LOG
ENRICHMENT ANALYZERS

DATE 8-25-82

ANALYZER # 4

TIME	BLANK		VERIFICATION/CALIBRATION														
	U	B	.715 VERIF./CAL.			1.454		2.223 VERIF./CAL.			2.999		3.978 VERIF./CAL.			M	K
			Enr.*	U	B	U	B	Enr.*	U	B	U	B	Enr.*	U	B		
✓ 2308 22	---	---	→														
✓ 2402	---	---	→														
✓ 0058			(.707)														
✓ 0210	---	---	→														
✓ 0246			.709														
✓ 0454	10.1		.719														
05																	
06																	
✓ 0718	6.1		.715														
08																	
✓ 0903	---	---	→														
✓ 1010																	
✓ 1114	6.1		.711														
12																	
13																	
14																	
15																	
16																	
✓ 1731	---	---	.714														
✓ 1852																	
✓ 1928	---	---	.719														
20																	
✓ 2148		2/0	.716														
✓ 2251	---	---	→														

* CIRCLE OUT OF ALARM VALUES

CL-338 RI Ref: SCP-401 Issued: 5/7/82 Approved 

AMP SETTING CHANGES:			
TIME	VOLTS	COARSE	FINE
2200			

CALIBRATION/VERIFICATION LOG
ENRICHMENT ANALYZERS


Tama

DATE 8-24-82
ANALYZER # 4

TIME	BLANK		VERIFICATION/CALIBRATION														M	K	
	U	B	715 VERIF./CAL.		1.454		2.223 VERIF./CAL.			2.999		3.978 VERIF./CAL.							
			Enr.*	U	B	U	B	Enr.*	U	B	U	B	Enr.*	U	B				
✓ 2300 25																			
✓ 2401			724															7695	1.206
01																			
✓ 0208	10/0		710																
03																			
✓ 0400																			
✓ 06036			716															7067	1.209
06																			
✓ 0706	10/0		721																
✓ 0826									2.176	10/0									Replaced
✓ 0903			707															7064	1.209
10																			
11																			
✓ 1205	10/0		713																
✓ 1350																			Replaced
✓ 1426			712																
✓ 1537																			
✓ 1611			711																1400
17																			
18																			
✓ 1942	10/0		716																
20																			
21																			
22																			

* CIRCLE OUT OF ALARM VALUES

AMP SETTING CHANGES:			
TIME	VOLTS	COARSE	FINE
2300			

CL-338 R1 Ref: SCP-401 Issued: 5/7/82 Approved: 

CHEMET LABORATORIES SAMPLE REPORT

* MAIL TO: KB7 CR

PAGE: 1
DATE: 17-AUG-82
TIME: 22135

SAMPLE # : 303083 NO. OF TESTS : 2

SAMPLER'S FAY #: 23875
REQ. COMPONENT : 987
DOCUMENT NO. : FRODI 10.50
CONTAINER/LOT #: 3305RM0554

DATE SAMPLED : 16-AUG-82
TIME SAMPLED : 04:41
AREA : PFU
MATERIAL CLASS : 1 UO2
SOURCE : SLUGGER

ANLS METHOD CODE EX NAME	RESULT	UNITS	TECH	COMPLETE
60 00 FRODI ISOTOFICS	3.443	X U-235	[REDACTED]	17-AUG-82 22
205 00 O/U in U	3.443	O/U RATIO	[REDACTED]	17-AUG-82 22

Should be
2.046 [] find
Thomson

Miss Point
of LANCIS - found this page
in box (disposal to separate)

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6
FOIA- 87-88

0.3

6
[] did say [] gave results to []
[] to him. Actually, what was wrong?
Were the results [] gathered for []
where did [] come up with his six standa

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6
FOIA 87-88

O.4

TABLE FOR SCT-401

ANALYZER #	(HP-80 Series)	
	REGRESSION MODEL COEFFICIENT	
	SLOPE	INTERCEPT
011	.999535	-.015054
012	1.000361	-.011828
013	1.003814	-.014472
014	— DOWN —	

(HP-80 Series)			
BIAS ADJUSTMENT FACTORS AND MINIMUM "U" COUNT LIMITS			
ANALYZER #	SLOPE	INTERCEPT	MINIMUM "U" COUNT
011	1.00593	-.00422	279269
012	1.00906	-.00522	289827
013	1.00544	-.00599	290003
014	— DOWN —		287181 8/1/82

NOTE: Check each calibration. The "B" counts for the lowest enrichment must have a "B" count greater than the "B" count for the highest enrichment.

SAMPLES CTD/RLSD		VERIFICATION *				CALIBRATION			
PROD.	G218	.715 enr	2.223	3.978	REPK'D	3.978 counts	M	K	POS. BK. SL
1	1								
1	1								
1	1	.715	2.214	3.974					
1	1				✓				
1	1	.715	2.230	3.915		310956	74863	2.6227	
1	1	.715							
1	1					311255	74796	2.7896	✓
1	1	.721	2.221	3.928		204801	75236	2.560	
1	1								
1	210	.712	2.215	3.940	✓				
1	1								
1	1		Chg 201 Kg		(N/A)	257912	50903	3.098	
1	1				✓				
1	1								
1	1								
1	1								
1	1								
1	1								
1	1								
1	1								
1	1								
1	1								
1	1								
1	1								
1	1								

Handwritten signature or initials: *[Large stylized signature]*

Le OUT-OF-LIMIT values...

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 6, 7C
FOIA 87-88

0.5

ENRICHMENT ANALYER CALIBRATION/VERIFICATION LOG

DATE: 10 22
ANALYZER: 3

SAMPLES CTD/RLSD		VERIFICATION *					CALIBRATION			
PROD.	G218	.715 enr	2.223	3.978	REP'D	3.978 Counts	H	K	MC. BK. SI.	
1	210	706	2 207	3 517	-					
1	210				-	282096	68957	1758	✓	
1	210					282096	68957	1758		
1	1	721	2 229	3 556						
1	1									
1	212	709	2 223	3 983						
1	1									
1	1									
1	1									
1	1									
1210	1	.730	2 237	3 981						
1	1									
1	1	.711	2 221	3 958						
1	1									
1	1									
1210	1	.700	2 212	3 976	Up 15					
1	1									
1	1	.726	2 140	3 527						
1	1									
1	1									
1	1									
1	1									
1	212	.713	2 251	3 572						
1	111	.711	2 171	3 554						
1	1									

* OUT-OF-LIMIT values.

ANALYZER: 3

SAMPLES CTD/RLSD		VERIFICATION #					CALIBRATION			
PROD.	G218	.715 enr	2.223	3.978	REPK'D	3.978 counts	M	K	POS. BK. SL	
1	1									
1	1	.715	(2.223)	3.986	✓					
1	1	.722	2.215	3.968		256768	69454	1.963		
1	1									
1	1									
1	1									
1	1									
1	1									
1210	1	.735	2.227	3.972						
1	1	.711	2.217	3.977		259692	69897	2.009		
1	1									
717	1	.711	2.213	3.984						
1	1									
1	1									
1	1									
1	1									
1	1									
1	1									
1	1									
1	1									
1	1									
1	1									

e OUT-OF-LIMIT values.

TABLE TWO (IP-80)

STANDARD VERIFICATION LIMITS (9825A)			
ANALYZER #011	ANALYZER #012	ANALYZER #013	ANALYZER #014
.719 ± .009	.717 ± .012	.714 ± .009	.715 ± .008
2.223 ± .013	2.231 ± .015	2.220 ± .012	2.224 ± .014
3.982 ± .019	3.982 ± .024	3.976 ± .021	3.966 ± .021

REGRESSION MODEL COEFFICIENT (IP-80)		
ANALYZER	SLOPE	INTERCEPT
011	1.003968	-.006642
012	1.005995	-.009013
013	1.003739	-.002528
014	1.005886	-.006204

BIAS ADJUSTMENT FACTOR AND MINIMUM "U" COUNT LIMITS (9825A)			
ANALYZER	SLOPE	INTERCEPT	MINIMUM "U" COUNT
011	1.00593	-.00422	285048
012	1.00901	-.00522	289827
013	1.00574	-.00599	290803
014	1.00569	-.01038	287744

283066
6-2

NOTE: Check count calibration, use "U" counts for the lowest enrichment and use a "U" count greater than the "U" count for the highest enrichment.



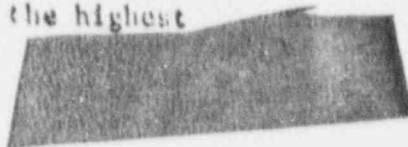
TABLE FOR SCP-501

STANDARD VERIFICATION LIMITS (9825A)			
ANALYZER #011	ANALYZER #012	ANALYZER #013	ANALYZER #014
.719 ± .009	.717 ± .012	.714 ± .009	.715 ± .008
2.223 ± .013	2.231 ± .015	2.220 ± .012	2.224 ± .014
3.942 ± .019	3.942 ± .024	3.976 ± .021	3.966 ± .021

REGRESSION MODEL COEFFICIENT (HP-80)		
ANALYZER	SLOPE	INTERCEPT
011	1.003968	-.006642
012	1.005995	-.009013
013	1.003739	-.002508
014	1.005886	-.006204

BIAS ADJUSTMENT FACTOR AND MINIMUM "U" COUNT LIMITS (9825A)			
ANALYZER	SLOPE	INTERCEPT	MINIMUM "U" COUNT
011	1.00593	-.00422	285048
012	1.00906	-.00522	289837
013	1.00574	-.00599	290803
014	1.00569	-.01038	287744

NOTE: Check each calibration. The "B" counts for the lowest enrichment must have a "B" count greater than the "B" count for the highest enrichment.



DATE: 12-FEB-81
TIME: 06:58:14

T0111

TECH PAY # : [REDACTED]
METHOD CODE : 6000
ANALYZER # : 12
STD TYPE # : 901
INIT CODE : 60

TECH NAME : [REDACTED]
METHOD NAME : Prod Isotopic
ANALYZER NAME : AMU ENRICHMENT #2
STANDARD BATCH NAME : .715 ISO. VERIF.
UNIT NAME : % U-235

JFFER CTL : 0.73100
JFFER ALRM : 0.72400
NOMINAL : 0.71500
LOWER ALRM : 0.70600
LOWER CTI : 0.69900
UPP SIGMA : 0.00480

VERIF STD # : 200011 RESULT: 0.72500

Is value input properly? YES NO _ _ _ _
If answer is NO, attach Transaction R20 report.

What do control chart and trend data show?

Have there been any changes or unusual events?
YES _ _ _ _ NO _ _ _ _

If YES, what?

Are there any distinctions with this analysis? (Do other standards show
analyze different? Preparation? Tech? Calibration?) Yes NO _ _ _ .

If YES, what?

Did investigation show a most likely cause? YES _ NO _ _ _ .

If YES, what?

What corrective action was taken?

When? _ _ _ _ _ BY whom?

Chemist approval:

Date:

Closed out on t790

DATE

Weekend of 1/15-16/83

I was working day shift when I found the following 902 transactions:

1902	-	15/1/83	at 0840	#13675
1902	-	"	" 0841	#13677
1902	-	"	" 1257	"
			(Can't delete)	
1902	-	"	" 1259	"
			(Can't delete)	
1902	-	"	" "	"
1902	-	"	" 1301	"
1902	-	"	" 1414	"

Information in this record was deleted
 in accordance with the Freedom of Information
 Act, exemptions
 FOIA - 97-02
 b1
 b7c

0-6

IC(2)

4/22/83 @ 5 PM to 8:30
in front of GAD INSPECTOR

insulted about
 putting a warning STD
 in LINES that shut down
 the system! Larry for
 Password - Come in the
 next day a very busy
 wonder id why she didn't
 + did not catch it! She
 told she didn't + would
 not have put it in - if
 it was Larry! Found
 out that she had put it
 in at the time that
 told her - she didn't have
 time - about a cast time to
 go home! He put it in!
 r.w.

6
6
6

Lab Supervisor

LMCS - STANDARD OUT OF LIMITS NOTICE

DATE: 18-DEC-82
TIME: 12116124
710110

+ CCR =
Fabs
bl

Y # : [redacted] TECH NAME:
CODE: 6000 METHOD NAME: PROD ISOTOPICS
R # : 12 ANALYZER NAME: ADV ENRICHMENT #2
C # : 903 STANDARD BATCH NAME: 3.978 ISO. VERIF.

TL : 4.02200
LRM : 4.00600
LRM : 3.97800
LRM : 3.96000
TL : 3.94400

ATION STD #: 200008

CHECK FAILURE. RESULT = 2.22300

WALW...
used =

Not on this
Slide at this
time.
Long count in
Co 1500
12/8/82

... on the
6700 - 1500 slide
12/8/82.

FOR SUPERVISOR USE ONLY		PERSONNEL ACCOUNTING USE ONLY	
E1A7S21452	SD0	E1S18	SD0
E21F2117	SD0	E1S30	SD0
E1092E1088	SD0	E1280	SD0
E1092E1088	SD0	E1280	SD0
E1092E1088	SD0	E1280	SD0

GENERAL ELECTRIC COMPANY
ATTENDANCE RECORD
51

GENERAL ELECTRIC COMPANY
ATTENDANCE RECORD
51

CHEMET LABORATORIES SAMPLE REPORT

* MAIL TO: KH7-C/R

PAGE: 1
DATE: 24-APR-82
TIME: 22122

SAMPLE # : [REDACTED] NO. OF TESTS : 2

SAMPLER'S PAY # : 22496
REQ. COMPONENT : 987
DOCUMENT NO. : PROD 80.96
CONTAINER/LOT # : 12008500RA

DATE SAMPLED : 22-APR-82
TIME SAMPLED : 08:00
AREA : PFU
MATERIAL CLASS : 1 1102
SOURCE : 26708

ANLS METHOD

CODE	EX	NAME	RESULT	UNITS	TECH	COMPLETED
60	00	PROD ISCTOPICS	1.191	X U-235	[REDACTED]	24-APR-82 2211
205	00	O/U in U	1.191	O/U RATIO	[REDACTED]	24-APR-82 2212

*Please delete this figure -
O/U Suppose to be 2.053 ✓*

*4/24/82
@ 2230*

*And out
dist: (this is fixed
throw this*

*Deleted
CL*

*4/24/82 Sam. - 902/903
150-2330*

They use Super. Passw.

D 4 2

MAIL TO: 187

PAGE: 1
DATE: 30-DEC-83
TIME: 21121

SAMPLE # : 540914 NO. OF TESTS : 2

* SUPERSEDES ALL PREVIOUS REPORT(S) *

SAMPLER'S PAY # : [REDACTED]
REQ. COMPONENT : 987
DOCUMENT NO. : PROD 90.43
CONTAINER/LOT # : 220RHF0350

DATE SAMPLED : 29-DEC-83
TIME SAMPLED : 01140
AREA : SEC
MATERIAL CLASS : 1 UO2
SOURCE : SLUGGER

ANLS CODE	ANZ	NAME	RESULT	UNITS	INCH	COMPLETE
60	11	PROD ISOTOPICS	2.148	% U-235	[REDACTED]	30-DEC-83
205	701	0/U in H	2.076	0/U ratio	[REDACTED]	30-DEC-83

*See chgd a LMS
by Univ's 903 James Wf
540914 Shown by Thom # 360
that another chemistry was
added by mistake. (FC)*

540914

PLER PAY NO. [REDACTED]

COMPONENT * 98.7

NO * 90.63

TAINER/LOT NO * 220 RHP 0350

PLTS TO

CODE * K8.7

NAME

KS/SPECIAL INSTR

6 DATE SAMPLED * 12 29 83

MO DAY YR
01 40

7 TIME SAMPLED *

8 AREA EECO

9 SOURCE

STORY ITEM

MATERIAL CLASSIFICATION

FUELS	GAD SHOP W/O	ENVIRONMENTAL	ALL METALS
✓ UO ₂	15 Gd UO ₂	25 RIVER SAMPLES	39 B+C
SP	16 Gd SP	26 LIQUID WASTES	40 ZIRC 2
UNIONIZED GECO	17 Gd-LW	27 SOIL SAMPLES	41 ZIRC 4
UOX	18 GdPO ₃	28 STACK FILTERS	42 CS
RAD LIQUIDS/WASTE	20 Gd Smeat	29 BIOASSAY	
SCRAP	21 Gd Rod	31 NH ₄ OH	
FUEL ROD	22 Gd Scrap	38 DIH ₂ O	60 SS
UFB			
HF ACID			
UNH			62 XM19
UF			75 INCONEL
GAS			
FILTEN			
BAW			84 ALUMINUM
			86 ZIRCONIUM

OR [] OTHER

CHEM LAB (WET SPEC GAD)

ENVIRONMENTAL LAB

METAL IMPURITY	038 Sm	200 TITRATION	501 ALKALINITY
Cd	039 Th	201 U GRAVIMET	503 BIOASSAY
Fe	040 W	202 Uppm	507 Cl
B	050 UNDISS RESIDUE	203 gU/g	509 Cr
Si	051 Th-230	204 gU/l	510 C:
Mn	060 PROD ISO	205 O/U-O/M	511 Fe
Mg	061 G218 ISO	210 POROSITY	515 F
Pb	062 SCRAP ISO	215 WET Fe	525 NH ₃
Cr	080 P in Zr	250 B+C WT LOSS	526 w o NH ₃
Al	090 ARCHIVE	252 W/O BORON	530 Ni
V	151 C	254 B+C PART DENS	535 NO ₂
Mo	153 S	256 B: O ₂	536 NO ₃
Sn	155 Cl	286 B+C ROD H ₂	540 P in Scrap
Cu	156 F	300 OTHER	545 pH
Na	160 H		547 PH
Zn	162 H		555 SOLIDS
Ag	163 H GUMBALL		
Ni	165 O		
Co	170 NH ₃		
Ce	171 NO ₃		
Ba	174 pH		
Be	175 NORMALITY		
Hf	178 % HF		
Nb	177 WEIGHT		
Ta	180 OUTGAS		
Ti	181 ROD ATM		
P	182 RITE H ₂		
			580 SO ₄
			585 U
			570 Zr
			797 Ti
			798 Si
			799 Mn
			800 Other

Fri. GYD

183 @ 2/19

TA 1674 (No Supervisors on wk end)

#540914 Showed on 360 Trans

ISO

Fe

O/U

Did not print off from LMCS for the original up
showed Pwd ISO + O/U only. Initialed by 2215.
made the correction using 903 Trans.

Told me later that he was not to use it as
he used Supervisor Password - that Supervisor
told him it was all right - that
other 2 truly used it also.

Asked for me not to say anything about it
or talk about it. (He said he would deny it
also stated when he could figure it - he
had used his - (also ^{some} at shift chg. so there
would be a choice of 6 people who could
do it?)

This trans + all supervisor trans print
out on the "23". He told me this - and I
told him about the 14 - he said No - only that
Supervisor!

Again asked me not to say anything, but
still ^{at that} would not get into trouble

7c

RERUN LOG

Yellow: Manager, Lab
 Pink: Measurement Con
 Gold: File

e	Technician	Sample #	Test	Test Values*					Assignable Cause/Co	
				Orig	2nd	3rd	x	u		"T"
13	[Redacted]	517249	ISO	2.496						QC Released 'S' "
		517251	ISO	2.676						" "
		51725	ISO	2.575						" "
		515632	" "	1.761						In SUFF uniform
		515711	" "	3.063						" "
		513540	" "	3.103						" "
		515885	" "	1.632						Released by X
		513337								
15	[Redacted]	524596	330CBS024	3.212						QC Released
26		524599	295CBS0058	2.890						✓
394		524582	295CBS0050	2.89A						✓
0	2147	525302	330CBS0559	3.191						✓
	214	525304	330CBS0560	3.211						✓
		525311	330CBS0575	2.215	3.215					✓
		524564	295CBS0011	2.862						✓
		524570	295CBS0017	2.850						✓
		525312	330CBS0576	3.226						✓
		525318	330CBS0291	3.215						✓
		525553	3953MS0018	3.227	3.271					✓

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 6 + 7C
FOIA 87-88

ENRICHMENT ANALYZER CALIBRATION/VERIFICATION LOG

DATE: 6-22-63
ANALYZER: 3

TIME	SAMPLES CTD/RLSD		VERIFICATION *				CALIBRATION			
	PROD.	G218	.715 enr	2.223	3.978	REPK'D	3.978 counts	M	K	POS. BK. SL
23:	1	1								
00:	1	1								
01: 12	1	1	.713	2.214	3.574	✓				
02: 34	1	1					310456	74863	2.6227	
03: 28	1	1	.715	2.230	3.915					
04:	1	1								
05: 05	1	1								
06:	1	1								
07: 16/12	1	1	.721	2.221	3.928					
08:	1	1								
09:	1	1								
10: 18	1	210	.712	2.215	3.940					
11:	1	1								
12: 11	1	1								
13:	1	1								
14:	1	1								
15:	1	1								
16:	1	1								
17:	1	1								
18:	1	1								
19:	1	1								
20:	1	1								
21:	1	1								
22:	1	1								

Handwritten notes and signatures in the table cells:
 - 12:11: (Net) 257912
 - 12:11: (Net) 257912
 - 12:11: (Net) 257912
 - Large signature across rows 17-22.

*Circle OUT-OF-LIMIT values

ENRICHMENT ANALYZER CALIBRATION/VERIFICATION LOG

DATE: 6-25-83
 ANALYZER: 3

TIME	SAMPLES CTID/RLSD		VERIFICATION *				CALIBRATION			
	PROD.	G218	.715 enr	2.223	3.978	REPK'D	3.978 count/s	H	K	POS. BK. SL
23:	/	/								
00:	/	/								
01:	/	/								
02:	/	/								
03:	/	/								
04:	/	/								
05:	/	/								
06:	/	/								
07:	/	/								
08:	/	/								
09:	/	/								
10:	/	/								
11:	/	/								
12: //	/	/								
13:	/	/								
14:	/	/								
15:	/	/								
16:	/	/								
17:	/	/								
18:	/	/								
19:	/	/								
20:	/	/								
21:	/	/								
22:	/	/								

* Circle OUT-OF-LIMIT values.

ENRICHMENT ANALYZER CALIBRATION/VERIFICATION LOG

DATE: 6-27-63
ANALYZER: 3

TIME	SAMPLES CTD/RLSD		VERIFICATION *					CALIBRATION			
	PROD.	G218	.715 enr	2.223	3.978	REPK'D	3.978 counts	H	K	POS. BK. SL	
23:	1	1									
00:	1	1									
01:25	1	1				✓	207985	6974	158	✓	
02:45	1	1					240260	20210	1495		
03:23	1	1	.713	2.226	3.979						
04:	1	1									
05:	1	1									
06:45	1	212	.710	2.222	3.970						
07:	1	1									
08:	1	1									
09:19	1	212	.720	2.220	3.973						
10:	1	1									
11:	1	1									
12:49	1	212	.712	2.219	3.959						
13:	1	1									
14:46	1	210	.711	.7206	3.954	NO	287257	6915	120		
15:46	1	1									
16:	1	1									
17:	1	1	calculated								
18:	1	1									
19:25	1	1					28621	6916	105		
20:05	1	1	.715	2.226	3.974						
21:	1	1									
22:	1	1									

* Circle OUT-OF-LIMIT values.

ENRICHMENT ANALYZER CALIBRATION/VERIFICATION LOG

DATE: 6 25
ANALYZER: 3

TIME	SAMPLES CTD/RLSD		VERIFICATION *					CALIBRATION		
	PROD.	G218	.715 enr	2.223	3.978	REP'D	3.978 counts	H	K	POG. BK. SU
23:26	1	210	706	2207	3513	-				
00:41	1	AP				-	286096	68957	1358	✓
01:41	1	AP					286096	68957	1358	
02:20	1	1	721	2224	3556					
03:	1	1								
04:42	1	212	709	2223	3983					
05:	1	1								
06:	1	1								
07:	1	1								
08:	1	1								
09:17	1210	1	.720	2237	3981					
10:58	1	1	711	2221	3988		286096	69129	1335	
11:14	1	1	711	2221	3988					
12:	1	1								
13:	1	1								
14:12	1210	1	.700	2212	3976	UPPER				
15:31	1	1	721	2140	3527		286096	65116	1578	
16:23	1	1	721	2140	3527					
17:	1	1								
18:	1	1								
19:	1	1								
20:31	1	212	.713	2221	3522					
21:55	1	111	.711	2111	3534					
22:	1	1								

* Circle OUT-OF-LIMIT values.

I 4(2)

ENRICHMENT ANALYZER CALIBRATION/VERIFICATION LOG

DATE: 6-26
ANALYTER: 3

TIME	SAMPLES CTD/RLSD		VERIFICATION *				CALIBRATION			
	PROD.	G218	.715 enr	2.223	3.978	REPK'D	3.978 counts	M	K	POS. BK. SU
23:	/	/								
00:22	/	1.10			3.586	/				
01:29	/	1.10								
02:22	/	/	.722	2.215	3.968		256728	69454	1.963	
03:	/	/								
04:	/	/								
05:	/	/								
06:	/	/								
07:25	12-10	/	.735	2.227	3.972					
08:42	1-1	/								
09:17	/	/	.711	2.217	3.970		259682	69897	2.009	
10:	/	/								
11:54	717	/	.717	2.213	3.984					
12:	/	/								
13:	/	/								
14:	/	/								
15:	/	/								
16:	/	/								
17:	/	/								
18:	/	/								
19:	/	/								
20:	/	/								
21:	/	/								
22:	/	/								

* Circle OUT-OF-LIMIT values.

TABLE FOR QIP-01


STANDARD VERIFICATION LIMITS (9825A)			
ANALYZER #011	ANALYZER #012	ANALYZER #013	ANALYZER #014
.719 ± .009	.717 ± .012	.714 ± .009	.715 ± .008
2.223 ± .013	2.231 ± .015	2.220 ± .012	2.224 ± .014
3.982 ± .019	3.982 ± .024	3.976 ± .021	3.966 ± .021

REGRESSION MODEL COEFFICIENT (IIP-80)		
ANALYZER	SLOPE	INTERCEPT
011	1.003968	-.006642
012	1.005995	-.009013
013	1.003739	-.002528
014	1.005886	-.006204

BIAS ADJUSTMENT FACTOR AND MINIMUM "U" COUNT LIMITS (9825A)			
ANALYZER	SLOPE	INTERCEPT	MINIMUM "U" COUNT
011	1.00593	-.00422	285048
012	1.00901	-.00522	289827
013	1.00574	-.00599	290803 283060
014	1.00569	-.01038	287744

6-23-d

NOTE: Check each calibration, use "P" counts for the lowest enrichment and use "B" count greater than the "B" count for the highest enrichment.

APPROVED BY 
DATE ISSUED 6/23/83

ATTN: Lab Supervisor

LMCS - STANDARD OUT OF LIMITS NOTICE, SEQUENCE # 944
INPUT VERIFICATION RESULTS
OUT-OF-ALARM

DATE: 12-FEB-84
TIME: 06:58:14

TECH PAY # : [REDACTED] TECH NAME : [REDACTED]
METHOD CODE : 6000 METHOD NAME : Prod Isotopic
ANALYZER # : 12 ANALYZER NAME : AMU ENRICHMENT #2
STD TYPE # : 901 STANDARD BATCH NAME : .715 ISO. VERIF.
UNIT CODE : 60 UNIT NAME : % U-235

T0111

UPPER CTL : 0.73100
UPPER ALRM : 0.72400
NOMINAL : 0.71500
LOWER ALRM : 0.70600
LOWER CTI : 0.69900
POP SIGMA : 0.00480

VERIF STD # : 200011 RESULT: 0.72500

Was value input properly? YES . . . NO _ _ _
If answer is NO, attach Transaction 820 report.

What do control chart and trend data show?

Have there been any changes or unusual events?

YES _ _ _ NO _ _ _

If YES, what?

Are there any distinctions with this analysis? (No other standards show same
Analyze different? Preparation, Tech?, Calibration?) Yes . . . NO _ _ _

If YES, what?

Did investigation show a most likely cause? YES . . . NO _ _ _

If YES, what?

What corrective action was taken?

When? _ _ _ _ _ BY whom?

Chemist approval:

Date

Closed out on t.790

DATE

TABLE FOR SCP-401


STANDARD VERIFICATION LIMITS (9825A)			
ANALYZER #011	ANALYZER #012	ANALYZER #013	ANALYZER #014
.719 ± .009	.717 ± .012	.714 ± .009	.715 ± .008
2.223 ± .013	2.231 ± .015	2.220 ± .012	2.224 ± .014
3.942 ± .019	3.942 ± .024	3.976 ± .021	3.966 ± .021

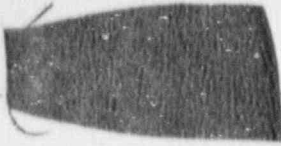
REGRESSION MODEL COEFFICIENT (HP-80)		
ANALYZER	SLOPE	INTERCEPT
011	1.003968	-.006642
012	1.005995	-.009013
013	1.003739	-.002508
014	1.005886	-.006204

BIAS ADJUSTMENT FACTOR AND MINIMUM "U" COUNT LIMITS (9825A)			
ANALYZER	SLOPE	INTERCEPT	MINIMUM "U" COUNT
011	1.00593	-.00422	285048
012	1.00906	-.00522	289837
013	1.00574	-.00599	290003
014	1.00569	-.01038	287744

283066
6-2-83

NOTE: Check each calibration. The "B" counts for the lowest enrichment must have a "B" count greater than the "B" count for the highest enrichment.

APPROVED BY: 
DATE ISSUED: 6/23/83



DATE 10-24-83

CC [Redacted]

Concern Supervisors

SUBJECT Concerns of Chemist ^{11/1} [Redacted]

Significant Concern: Personnel feel they are being pressured to meet production needs and are finding themselves running standards until they are acceptable to release materials.

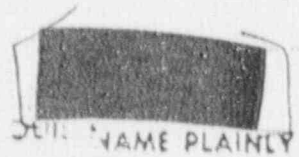
Personnel also feel that the individual that runs OHL & OCL values is looked at differently from those who seldom have OHL & OCL values.

Personnel understand how limits are established, but feel limits ^{standards} are based on order to satisfy production oriented goals.

I feel a meeting is needed to address employees' concerns and reduce self imposed pressure to produce.

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 6 FOIA 87-88

C-8



Patricia G. [Redacted]

DATE NAME PLAINLY

COMPLETE MAILING ADDRESS

PHONE LISTING

1-33

GENERAL ELECTRIC

DIAL COMM# 8*292-5461

DATE: January 19, 1984

COPIES: [REDACTED]

H-92

K-10

J-02

DEPT: WILMINGTON MANUFACTURING DEPARTMENT

ADDRESS: M/C H-92

SUBJECT: ACTION PLANNED PER OUR 01/12/84 MEETING

TO: JTC

As indicated to you in our meeting of 01/12/84, actions have/will be taken in the following areas.

- Flexibility for you to change your password has been limited due to the required interactions of two computers, LMCS and HP9887, both of which require exact password matching. Specifically, [REDACTED] the only Lab LMCS authorized password accessor, will be set up by 01/25/84 to also be the only authorized HP9887 password accessor. At any time you are scheduled off for more than 48 hours, your in-process work on the HP9887 should be cleared such that you may contact John to effect a password change for you. Based on your 4-shift rotation, you should be able to change your password upon reporting to either the 3:00 - 11:00 shift or the 7:00 - 3:00 shift.
- LMCS 902/903 transaction password control, when initially set up, involved the ability to change values for standards results and, consequently, access was restricted to supervisor passwords only. Sometime ago, these transactions were modified to eliminate access to changing standard results. Use of the current 902/903 transaction by qualified lab personnel is appropriate for routine correction for input errors. However, if intentional falsification of results occurred, traceability to who/why changes were made would not be available. Therefore, transactions 902/903 will not be made available to others until they are modified to record and print out on each changed result report to document the person, reason and date of the changes. In the interim, all supervisory passwords will be changed on a continuing basis to eliminate indiscrete use by others.

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions b7C
FOIA- 97-88

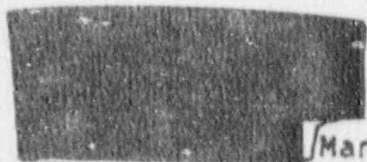
0-9

174
January 19, 1984

-page 2-

- When the HP9887 computer was implemented in November 1982, the pay number of the operator performing the sample solution weighing was used as the pay number to be reported on the LMCS results report. Since the possibility does exist that the shift operator who transacts the data on the HP9887 to LMCS may allow incorrect data to be transmitted, the LMCS results report will then show this incorrect results and the pay number of the non-transmitting operator. Since it is not possible to enter one pay number which will represent the performance of the total steps in completing a sample, I have decided to change the pay number reported to LMCS to be the pay number of the operator releasing the results. This change was implemented effective 01/17/84.

With respect to samples which you have identified on the rerun log as requiring rerun and subsequently being deleted by another operator, from the Lab viewpoint. I am confident that the deletions are being properly handled. Per procedure, a sample outside the expected range is to be rerun if C&R personnel indicate it is from a source which was expected to meet the range. Your C&R contact advises to rerun the sample and a subsequent C&R contact advises not to rerun. The problem lies with differing C&R decisions. From a quality viewpoint, samples outside the expected range which are not rerun will not be released by C&R. From a Lab viewpoint, we should not expend the retest labor to rerun samples not requiring reruns. As an overview of the total isotopic measurement/quality release system, no specific problems are apparent due to samples not being rerun which should have been rerun.



Manager

Chemet Laboratories, M/C H-92

TPW/dvc

WNY 31

1-1-1
Run by
[Signature]

DATE: 184042

SAMPLE	TUBE	JM	TYPE	#A	TARE	SAMPLE	IGH	SOL	GUG
548613	6300	.715	PROD	1	29.2573	4.5074	33.9127	60.2942	.1272
548613	6324	.715	PROD	1	28.5060	4.5062	33.1599	58.9051	.1296
548614	6381	2.223	PROD	1	27.8653	4.5058	32.4945	58.2618	.1291
548614	6414	2.223	PROD	1	28.3065	4.5057	32.9353	58.6915	.1292
548615	6398	2.999	PROD	1	27.2099	4.5031	31.8118	58.6773	.1240
548615	6292	2.999	PROD	1	29.3095	4.5082	33.9194	60.4669	.1255
548618	6443	3.950	PROD	1	25.1111	4.5064	29.7653	55.5568	.1296
548618	6433	3.950	PROD	1	27.8814	4.5027	32.5317	59.5444	.1245
548619	6261	4.000	PROD	1	27.9094	4.5041	32.5682	59.4189	.1254
548619	6456	4.000	PROD	1	28.2327	4.5019	32.8901	58.7270	.1295
548620	6389	2.380	PROD	1	23.8436	4.4958	28.4945	54.2973	.1295
548620	6480	2.380	PROD	1	24.5718	4.4969	29.2250	55.0941	.1293

*Integrity is important when following STET
 another Techn. Work -!*

Information in this record was deleted
 in accordance with the Freedom of Information
 Act, exemptions 6
 FOIA 87-88

0-10

DATE: 12/4/47

WKLY STD
Bad Powder

SAMPLE	TUBE	NOM	TY E	#A	TARE	SAMPLE	IGN WT	SOL WT	GUG	
40474	0	2.999	PRDD	1	30.2637	4.5074	34.8710	0.0000	0.0000	2.
40474	0	2.999	PRDD	1	31.1014	4.5061	35.7060	0.0000	0.0000	2.
40474	0	2.999	PRDD	1	27.6084	4.5080	32.2148	0.0000	0.0000	2.
40474	0	2.999	PRDD	1	27.8654	4.5029	32.4655	0.0000	0.0000	2.

#	POS.	OPERATOR # 16488	308	SOLUTION	U 235	U 235
174	1	2.999	OPERATOR # 16488			
	2	2.999	1-RENTER, 2-NENT TRAN			
	3	2.999	CRUCIBLE WT. LOC 501			
	4	2.999	TARE = 30.2637			
	5		SAMPLE WT. LOC 501			
	6		SAMPLE WT = 4.5074			
	7		CONC.			
	8					
	9					
	10					
	11					
	12					
			OX. IN			
			2/19/89			
			330			
			OX. OUT			
			2/12			
			334			
			OX. IN			
			350			

sample for this assay

TE
WE
ALYST



.....
 *
 * SAMPLE PREPARATION DATA *
 *
 *

INITIAL WEIGHTS				IGNITED WEIGHTS				SOLUTION WEIGHTS			
E	TR	OPER	DATE	TARE	UO2	OPER	DATE	U3O8	OPER	DATE	SOLUTION
3	8	[REDACTED]	39	29.2573	4.5074	[REDACTED]	39	33.9127	[REDACTED]	39	60.2942
3	8	[REDACTED]	39	28.5050	4.5062	[REDACTED]	39	33.1599	[REDACTED]	39	58.9051
4	8	[REDACTED]	39	27.8653	4.5058	[REDACTED]	39	32.4945	[REDACTED]	39	58.2618
4	8	[REDACTED]	39	28.3065	4.5057	[REDACTED]	39	32.9353	[REDACTED]	39	58.6915
5	8	[REDACTED]	39	27.2099	4.5031	[REDACTED]	39	31.8118	[REDACTED]	39	58.6773
5	8	[REDACTED]	39	29.3095	4.5082	[REDACTED]	39	33.9194	[REDACTED]	39	60.4669
8	8	[REDACTED]	39	25.1111	4.5064	[REDACTED]	39	29.7653	[REDACTED]	39	55.5568
8	8	[REDACTED]	39	27.8814	4.5027	[REDACTED]	39	32.5317	[REDACTED]	39	59.5444
9	8	[REDACTED]	39	27.9094	4.5041	[REDACTED]	39	32.5682	[REDACTED]	39	59.4189
9	8	[REDACTED]	39	28.2327	4.5019	[REDACTED]	39	32.6901	[REDACTED]	39	58.7270
0	8	[REDACTED]	39	23.8436	4.4958	[REDACTED]	39	28.4945	[REDACTED]	39	54.2973
0	8	[REDACTED]	39	24.5718	4.4969	[REDACTED]	39	29.2250	[REDACTED]	39	55.0941

.....
 *
 * REPORT FOR ANALYZER# 3 *
 *
 * DATE: 84042 TIME: 4:42 *
 *
 *

BEFORE STANDARDS		POST STANDARDS		CONSTANTS	
LOW STD	.702	LOW STD	.712	M	61270.509585
MED STD	2.220	MED STD	2.223	K	1.857195
HIGH STD	3.973	HIGH STD	3.980	SLOPE	1.001661
				INTER	-.001195

E	OPER	TUBE	NOM ENR	APP ISO	COR ISO	GUL	GUG	O/U	ENR	AVG ENR	SENT Y/N
3	[REDACTED]	6300	0.715	0.792	0.713	172.1	.1272	2.109	0.713	0.713	YES
3	[REDACTED]	6324	0.715	0.808	0.712	175.6	.1298	2.110	0.712	0.712	YES
4	[REDACTED]	6381	2.223	2.501	2.216	175.4	.1291	2.199	2.218	2.218	YES
4	[REDACTED]	6414	2.223	2.482	2.190	175.5	.1292	2.200	2.201	2.201	YES
5	[REDACTED]	6398	2.999	3.223	2.984	169.7	.1240	2.290	2.988	2.988	YES
5	[REDACTED]	6292	2.999	3.259	2.979	169.2	.1255	2.280	2.983	2.983	YES
8	[REDACTED]	6443	3.950	4.432	3.910	176.3	.1296	2.110	3.916	3.916	YES
8	[REDACTED]	6422	3.950	4.450	3.910	176.2	.1295	2.110	3.910	3.910	YES

.....
 VARIATION DATA

IGNITED WEIGHTS

SOLUTION WEIGHTS

OPER	DATE	U308	OPER	DATE	SOLUTION
[REDACTED]	39	33.9127	[REDACTED]	39	60.2940
[REDACTED]	39	33.1599	[REDACTED]	39	58.9051
[REDACTED]	39	32.4945	[REDACTED]	39	58.2618
[REDACTED]	39	32.9353	[REDACTED]	39	58.6915
[REDACTED]	39	31.8118	[REDACTED]	39	58.6773
[REDACTED]	39	33.9194	[REDACTED]	39	60.4669
[REDACTED]	39	25.7653	[REDACTED]	39	55.5568
[REDACTED]	39	32.5317	[REDACTED]	39	59.5444
[REDACTED]	39	32.5682	[REDACTED]	39	59.4189
[REDACTED]	39	32.6901	[REDACTED]	39	58.7270
[REDACTED]	39	28.4945	[REDACTED]	39	54.2973
[REDACTED]	39	29.2250	[REDACTED]	39	55.0941

.....
 ANALYZER# 3

TIME: 4:42

STANDARDS

CONSTANTS

0.712
 2.223
 3.980

M 61270.509585
 K 1.857195
 SLOPE 1.001661
 INTER -1.001195

GUL	GUG	D/U	ENR	AVG ENR	SENT Y/N
172.1	.1272	2.109	0.713	0.713	YES
175.6	.1298	2.110	0.712	0.712	YES
175.4	.1291	2.199	2.218	2.218	YES
175.5	.1292	2.200	2.201	2.201	YES
165.7	.1240	2.290	2.988	2.988	YES
159.2	.1255	2.280	2.983	2.983	YES
176.3	.1296	2.110	3.916	3.916	YES
167.2	.1265	2.110	3.000	3.000	YES

ICIAV
 TIME: 5:01
 DATE: 84042

MPLE	TUBE	NOM	TYPE	#A	TARE	SAMPLE	IGH WT	SOL WT	GUG	
****	****	***	****	**	****	*****	**	**	***	*
8613	6300	.715	PROD	1	29.2573	4.5074	33.9127	60.2942	.1272	2.
8613	6324	.715	PROD	1	28.5060	4.5062	33.1599	58.9051	.1298	2.
8614	6381	2.223	PROD	1	27.8653	4.5058	32.4945	58.2618	.1291	2.
3614	6414	2.223	PROD	1	28.3065	4.5057	32.9353	58.6915	.1292	2.
3615	6398	2.999	PROD	1	27.2099	4.5031	31.8118	58.6773	.1240	2.
8615	6292	2.999	PROD	1	29.3095	4.5082	33.9194	60.4669	.1255	2.
8618	6443	3.950	PROD	1	25.1111	4.5064	29.7653	55.5568	.1296	2.
3618	6433	3.950	PROD	1	27.8814	4.5027	32.5317	59.5444	.1245	2.
8619	6261	4.000	PROD	1	27.9094	4.5041	32.5682	59.4189	.1254	2.
8619	6456	4.000	PROD	1	28.2327	4.5019	32.8901	58.7270	.1295	2.
8620	6389	2.380	PROD	1	23.8436	4.4958	28.4945	54.2973	.1295	2.
3620	6480	2.380	PROD	1	24.5718	4.4969	29.2250	55.0941	.1293	2.

ON ALL AMAs
K-X-3-

PRODUCTION
8U/2 ISOTOPIC
& O/U RATIO

199
8
4

CONTAINER #	CRUC POS.	TARE WGT.	UO ₂ WGT.	TARE + U ₃ O ₈	TARE + SOLUTION	TUBE #	AWA #	MEAS. U ₂₃₅	CALC. U ₂₃₅	O/U RATIO
10316 # 1	1					6300				
30957 # 2	2					6324				
40474 # 3	3					6381				
52435 # 4	4					6414				
65416 # 5	5					6398				
2-390 #13 # 6	6					6292				
100101041 # 7	7					6413				
2-390 #13 # 8	8					6433				
2-390 #13 # 9	9					6261				
2-390 #13 # 10	10					6456				
2-390 #13 # 11	11	23.8436	4.4958			6389				
2-390 #13 # 12	12	24.5718	4.4969			6480				
3695										
OX. IN	OX. OUT									
2/8/84	2/8/84									
CS10-B	CS10-B									

.....
 .
 . SAMPLE PREPARATION DATA .
 .

INITIAL WEIGHTS				IGNITED WEIGHTS				SOLUTION WEIGHT			
FILE	TR	OPER	DATE	TARE	U02	OPER	DATE	U308	OPER	DATE	SOLU
348	19		40	29.3094	4.5061	0	40	33.9939		40	59.3
348	19		40	23.6955	4.5001	0	40	28.3732		40	54.7
348	19		40	23.4706	4.5066	0	40	28.1558		40	54.7
481	19		40	29.1359	4.5006	0	40	33.8143		40	60.3
481	19		40	30.1551	4.5070	0	40	34.6399		40	61.1
481	19		40	27.7979	4.5067	0	40	32.4827		40	58.8
306	19		40	26.4490	4.5034	0	40	31.1301		40	57.4
306	19		40	29.5241	4.5004	0	40	34.2023		40	60.3
306	19		40	28.7233	4.5058	0	40	33.4076		40	58.7
305	19		40	28.9073	4.5098	0	40	33.6248		40	59.8
305	19		40	28.7040	4.5052	0	40	33.3872		40	59.8

.....
 .
 . REPORT FOR ANALYZER # 1 .
 .
 . DATE: 84041 TIME: 10:38 .
 .

BEFORE STANDARDS

LOW STD .719
 MED STD 2.220
 HIGH STD 3.961

POST STANDARDS

LOW STD .715
 MED STD 2.214
 HIGH STD 3.961

CONSTANTS

M 66880.883209
 K 1.697680
 SLOPE 1.003347
 INTER -.003590

FILE	OPER	TUBE	NOM ENR	APP ISO	COR ISO	GUL	GUG	O/U	ENR	AVG ENR	SE Y/
348		6322	3.300	3.791	3.279	180.4	.1321	1.999	3.286	3.286	YE
348		6329	3.300	3.635	3.263	172.7	.1276	2.001	3.271	3.271	YE
348		6372	3.300	4.987	4.494	172.0	.1271	1.998	4.505	0.000	NO
481		6203	0.710	0.820	0.738	172.2	.1273	2.000	0.737	0.737	NO
481		6199	0.710	0.821	0.734	173.7	.1281	2.001	0.733	0.733	YE
481		6319	0.710	0.823	0.738	173.1	.1278	2.000	0.736	0.736	NO
306		6410	0.710	1.170	1.045	173.7	.1281	2.001	1.045	1.045	NO
306		6393	0.710	0.818	0.727	174.7	.1287	2.000	0.726	0.726	YE
306		6195	0.710	0.864	0.745	181.0	.1324	1.998	0.744	0.744	NO

iso report# 3627
Transmission Station
Released by: 22072
TIME: 10:48
DATE: 84041

les Transmitted To LMCS

Sample#	Tube	iso	O/U	Avg Iso	Avg O/U
552481	6203	.737	2.000	.737	0.000
552481	6199	.733	2.001	.733	0.000
552481	6319	.736	2.000	.736	0.000
552305	6313	.730	2.001	.730	0.000
552305	6210	.730	2.002	.730	0.000
552305	6317	.726	2.000	.726	0.000

les Held For Recount

Sample#	Tube	iso	O/U	Avg Iso	Avg O/U
552348	6372	4.505	1.998	0.000	0.000

les Withheld

Sample#	Tube	iso	O/U	Avg Iso	Avg O/U
552348	6322	3.286	1.999	3.286	0.000
552348	6329	3.271	2.001	3.271	0.000
552348	6372	4.505	1.998	0.000	0.000
552306	6410	1.045	2.001	1.045	0.000
552306	6393	.726	2.000	.726	0.000
552306	6195	.744	1.998	.744	0.000

213
19
9

EXAMINATION
gU/g ISOTOPIC
& O/U RATIO

CONTAINER #	CRUC. POS.	TARE WGT.	DO ₂ WGT.	TARE + U ₃ O ₈	TARE + SOLUTION	TUBE #	ANA #	MEAS. U ₂₃₅	CALC. U ₂₃₅	O/U RATIO
33072A1440	1					6322	1			
"	2					6329				
"	3					6372		000	79.505	AWG
27162A9910	4					6203				
"	5					6199				
"	6					6249			36.82	(G)
27162A9917	7					6410		1045	AW	(G)
"	8					6293				
"	9					6105				
27162A9915	10					6313				
"	11					6210				
"	12					6247				
8-84 1300 MAG				OX. IN 2/9/84 1145-TM	OX. OUT 2/9/84 1500-TM					

.....
 *
 * SAMPLE PREPARATION DATA *
 *
 *

INITIAL WEIGHTS				2 ? IGNITED WEIGHTS				SOLUTION WEIGHT			
FILE	TR	OPER	DATE	TAKE	U02	OPER	DATE	U308	OPER	DATE	SOLI
291	12		41	28.8801	4.5054	0	42	33.5349		42	59.1
290	12		41	26.8817	4.5071	0	42	31.5339		42	57.5
289	12		41	29.6177	4.5060	0	42	34.2654		42	61.1
288	12		41	31.3782	4.5011	0	42	36.0201		42	62.7
287	12		41	27.8660	4.5031	0	42	32.5123		42	58.5
286	12		41	27.8457	4.5009	0	42	32.4861		42	58.5
285	12		41	29.7818	4.5007	0	42	34.4375		42	59.5
281	12		41	30.1222	4.5032	0	42	34.7802		42	60.4
280	12		41	26.4491	4.5100	0	42	31.1205		42	56.6
279	12		41	25.9542	4.5002	0	42	30.5767		42	56.8
278	12		41	29.2454	4.5099	0	42	33.8821		42	59.6
277	12		41	27.6081	4.5035	0	42	32.2557		42	57.9

.....
 *
 * REPORT FOR ANALYZER# 4 *
 *
 * DATE: 84042 TIME: 20:40 *
 *
 *

BEFORE STANDARDS		POST STANDARDS		CONSTANTS	
LOW STD	.708	LOW STD	.709	M	62601.277938
MED STD	2.221	MED STD	2.228	K	1.866631
HIGH STD	3.976	HIGH STD	3.985	SLOPE	1.001144
				INTER	.000786

FILE	OPER	TUBF	NOM ENR	APP ISO	COR ISO	GUL	GUG	O/U	ENR	AVG ENR	SE Y/
291		6442	1.500	1.685	1.513	172.0	.1271	2.104	1.521	1.521	YE
290		6304	0.710	0.793	0.715	171.9	.1271	2.120	0.716	0.716	YE
289		6452	0.710	0.778	0.715	168.1	.1248	2.132	0.717	0.717	YE
		6370	0.710	0.786	0.720	168.9	.1253	2.135	0.721	0.721	YE
		6336	0.710	0.797	0.711	174.1	.1284	2.126	0.712	0.712	YE
		6387	0.710	0.801	0.716	173.6	.1280	2.139	0.718	0.718	YE
		6344	1.600	1.778	1.555	178.0	.1307	2.083	1.558	1.558	NO
		6292	2.000	2.278	2.011	177.1	.1291	2.004	2.005	2.005	NO

RECEIVED 1965

.....
 *
 * SAMPLE PREPARATION DATA *
 *
 *

INITIAL WEIGHTS				IGNITED WEIGHTS				SOLUTION WEIGHT			
SAMPLE	TR	OPER	DATE	TARE	UO2	OPER	DATE	U3O8	OPER	DATE	SOL
1283	9	[REDACTED]	41	31.1012	4.5091	0	42	35.7540	[REDACTED]	42	60.
1284	9	[REDACTED]	41	28.3236	4.5088	0	42	32.9749	[REDACTED]	42	59.
1270	9	[REDACTED]	41	29.3502	4.5004	0	42	33.9974	[REDACTED]	42	59.
1271	9	[REDACTED]	41	28.3146	4.5056	0	42	32.9641	[REDACTED]	42	59.
1272	9	[REDACTED]	41	28.5341	4.5029	0	42	33.1469	[REDACTED]	42	59.
1273	9	[REDACTED]	41	29.2395	4.5053	0	42	33.9004	[REDACTED]	42	59.
1274	9	[REDACTED]	41	27.9978	4.5027	0	42	32.6036	[REDACTED]	42	57.
1275	9	[REDACTED]	41	25.4977	4.5023	0	42	30.1177	[REDACTED]	42	55.
1276	9	[REDACTED]	41	30.3573	4.5060	0	42	35.0085	[REDACTED]	42	60.
1282	9	[REDACTED]	41	27.8274	4.5033	0	42	32.4404	[REDACTED]	42	57.
1293	9	[REDACTED]	41	29.0723	4.5086	0	42	33.7321	[REDACTED]	42	58.
1292	9	[REDACTED]	41	28.7251	4.5048	0	42	33.3342	[REDACTED]	42	58.

.....
 *
 * REPORT FOR ANALYZER# 1 *
 *
 * DATE: 84042 TIME: 19:52 *
 *
 *

BEFORE STANDARDS			POST STANDARDS			CONSTANTS		
LOW STD	.723		LOW STD	.713		M	66414.645614	
MED STD	2.226		MED STD	2.224		K	1.765327	
HIGH STD	3.974		HIGH STD	3.976		SLOPE	1.003347	
						INTER	-.003590	

SAMPLE	OPER	TUBE	NOM ENR	APP ISO	COR ISO	GUL	GUG	O/U	ENR	AVG ENR	S
1283	[REDACTED]	6389	0.710	0.841	0.726	180.7	.1322	2.125	0.725	0.725	Y
1284	[REDACTED]	6292	0.710	0.798	0.714	173.6	.1280	2.127	0.712	0.712	Y
1270	[REDACTED]	6480	3.300	3.738	3.280	176.9	.1300	2.113	3.296	3.296	Y
1271	[REDACTED]	6398	0.710	0.836	0.751	172.5	.1274	2.124	0.750	0.750	N
1272	[REDACTED]	6393	2.000	2.226	1.994	173.2	.1278	2.249	1.997	1.997	Y
1273	[REDACTED]	6459	1.600	1.853	1.607	179.9	.1318	2.081	1.608	1.608	Y
1274	[REDACTED]	6325	2.000	2.284	2.000	177.8	.1305	2.274	2.003	2.003	Y
1275	[REDACTED]	6458	2.400	2.731	2.418	175.6	.1292	2.220	2.422	2.422	Y

Report # 0705
 Transmission Status
 Released by: 15394
 TIME: 20:01
 DATE: 84042

les Transmitted To LMCS

Sample#	Tube	Iso	O/U	Avg Iso	Avg O/U
441283	6389	.725	2.125	.725	0.000
441284	6292	.712	2.127	.712	0.000
441270	6480	3.296	2.113	3.296	0.000
441272	6393	1.997	2.249	1.997	0.000
441273	6459	1.608	2.081	1.608	0.000
441274	6325	2.003	2.274	2.003	0.000
441275	6458	2.422	2.220	2.422	0.000
441276	6298	1.993	2.119	1.993	0.000
441293	6372	.723	2.097	.723	0.000
441292	6294	1.970	2.270	1.970	0.000

les Held For Recount

Sample#	Tube	Iso	O/U	Avg Iso	Avg O/U
---------	------	-----	-----	---------	---------

les Withheld

Sample#	Tube	Iso	O/U	Avg Iso	Avg O/U
441271	6398	.750	2.124	.750	0.000
441282	6350	1.900	2.250	1.900	0.000

IPES - STANDARD OUT OF LIMITS NOTICE, SEQUENCE #
INPUT VERIFICATION RESULTS
OUT-OF-ALARM

DATE: 12-22-87
TIME: 06:58:14

TECH PAY # : [REDACTED]
METHOD CODE: 6000
ANALYZER # : 12
STD TYPE # : 901
UNIT CODE : 60

TECH NAME :
METHOD NAME : Prod Testopic
ANALYZER NAME : AMU ENRICHMENT #1
STANDARD BATCH NAME : .715 ISO. VENT.
UNIT NAME : X 11-235

7C - TR111

UPPER CTI : 0.73100
UPPER ALRM : 0.72400
NOMINAL : 0.71500
LOWER ALRM : 0.70600
LOWER CTI : 0.69900
OF SIGMA : 0.00480

REF STD # : 200011 RESULT: 0.72500

*Why did LWCS to
relax the
material?
2/24*

Is value input properly? YES NO
If answer is NO, attach Transaction R20 report.

What do control chart and trend data show?

Have there been any changes or unusual events?

ES ---- NO ----

If YES, what?

Are there any distinctions with this analysis? (In other standards show
analyze different? Preparation? Tech? Calibration?) Yes .. NO ..

If YES, what?

Did investigation show a most likely cause? YES NO

If YES, what?

What corrective action was taken?

When? .. By whom? ..

Analyst approval: .. Date ..

closed out on t.790 .. DATE ..

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6 & 7C
FOIA 87-88

0-11

.....
 .
 . SAMPLE PREPARATION DATA .
 .
 .

INITIAL WEIGHTS					IGNITED WEIGHTS				SOLUTION WEIGHTS		
FILE	TR	OPER	DATE	TARE	U02	OPER	DATE	U008	OPER	DATE	SOL
'955	1		65	27.6937	4.5121		65	32.5670		65	55.1
'955	1		65	26.1115	4.5095		65	32.7031		65	54.1
'967	1		65	25.8245	4.4972		65	32.4597		65	53.1
'967	1		65	27.8858	4.5054		65	32.5497		65	54.1

.....
 .
 . REPORT FOR ANALYZER # 1 .
 .
 . DATE: 03065 TIME: 12:53 .
 .
 .

BEFORE STANDARDS			POST STANDARDS			CONSTANTS		
LOW STD		.724	LOW STD		.718	M		70542.707254
MED STD		1.226	MED STD		1.227	S		1.37831
HIGH STD		3.932	HIGH STD		3.936	SLOPE		1.00057
						INTER		-1.00642


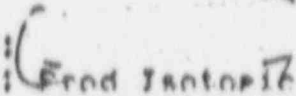
FILE	OPER	TUBE	NIP ENR	APP ISO	COA ISO	SOL	GUS	DXU	ENR	AVG ENR
'955		7841	3.300	4.145	3.227	204.3	.1445	2.061	3.226	3.224
'955		7846	3.300	4.017	3.236	196.2	.1401	2.058	3.228	3.000
'967		7890	3.950	4.775	3.845	196.4	.1402	2.070	3.837	3.839
'967		7524	3.950	5.076	3.846	211.1	.1411	2.071	3.819	3.800

RELEASED TO LMC5 _____ DATE _____

ATTN: Lab Supervisor

IMCR - STANDARD OUT OF LIMITS NOTICE: SEQUENCE # 9
INPUT VERIFICATION RESULTS
OUT-OF-ALARM

DATE: 12-FFB-R
TIME: 0615R114

TECH PAY # :  TECH NAME : 
METHOD CODE: 6000 METHOD NAME : Prod Isotope
ANALYZER # : 17 ANALYZER NAME : ADV ENRICHMENT #2
STD TYPE # : 901 STANDARD BATCH NAME : .715 ISO. VFRIF.
UNIT CODE : 60 UNIT NAME : X U-235

T0111

UPPER CTI : 0.73100
LOWER ALRM : 0.72400
NOMINAL : 0.71500
LOWER CTI : 0.70600
POP SIGMA : 0.69900

JERIF STD #: 200011 RESULT: 0.72500

Was value input properly? YES NO
If answer is NO, attach Transaction R20 report.

What do control chart and trend data show?

Have there been any changes or unusual events?

RES ---- NO ----

If YES, what?

Are there any distinctions with this analysis? (Do other standards show SA
analyze different? Preparation? Tech? Calibration?) Yes NO

If YES, what?

Did investigation show a most likely cause? YES NO

If YES, what?

What corrective action was taken?

When? By whom?

Chemist approval: _____ Date _____

Checked out on 1790 _____ DATE _____

2/12/84 @ 2 '9

In 237 Diss 1

1111 1154
1111 14043

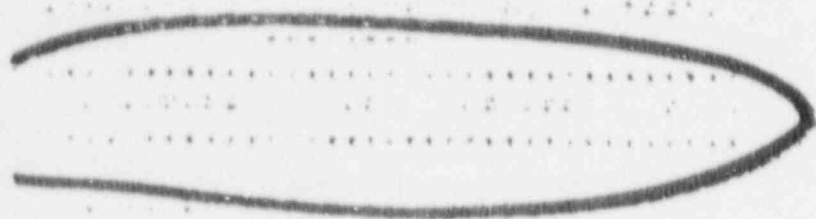
SAMPLE	TUBE	NOM	TYPE	#A	TARE	SAMPLE	1698	1698	GUG
							1698	1698	
49533	6445	2.200	PROD	1	28.7045	4.5065	31.6725	60.4012	.1249
49533	6445	2.700	PROD	1	29.5529	4.5061	34.1366	61.0877	.1233
49533	6324	2.700	PROD	1	29.5566	4.5047	30.1542	56.7380	.1248
49533	6317	2.200	PROD	1	29.5770	4.4920	34.2279	60.5414	.1274
50626	6201	1.200	PROD	1	29.1189	4.4914	33.7609	60.6437	.1249
50626	6320	1.200	PROD	1	30.9367	4.4938	35.5819	62.5260	.1247
52000	6456	1.600	PROD	1	32.4872	4.4983	37.1306	62.0211	.1333
52000	6433	1.600	PROD	1	30.1139	4.4955	34.7548	61.4898	.1254
55526	6485	.710	PROD	1	29.1362	4.4939	33.7714	60.4093	.1257
55526	6414	.710	PROD	1	30.2959	4.5011	34.9292	62.2698	.1230
49536	6443	2.700	PROD	1	27.2102	4.4932	31.7858	59.0433	.1219
49527	6381	2.700	PROD	1	30.1435	4.4951	34.8014	60.3703	.1307

Micro

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
55201	55202	55203	55204	55205	55206	55207	55208	55209	55210	55211	55212	55213	55214	55215	55216	55217	55218	55219	55220	55221	55222	55223	55224	55225	55226	55227	55228	55229	55230	55231	55232	55233	55234	55235	55236	55237	55238	55239	55240	55241	55242	55243	55244	55245	55246	55247	55248	55249	55250

- Deleted

210 Trans



Ad @ 2135
1140

about this & he said he received this on 1/1
+ also about 3 or 4 results on this same can #!

icked this up @ 1/3/64 @ 2130 & thought it was strange!

Superceded! (Christmas h WK End - Come back on Fri or S)

CHEMET LABORATORIES SAMPLE REPORT

 * MAIL TO:

PAGE: 1
 DATE: 21-AUG-81
 TIME: 10:28

SAMPLE # : 240487 NO. OF TESTS : 2

SAMPLER'S PAY # : [REDACTED]
 REQ. COMPONENT : 470
 DOCUMENT NO. : LUI-015
 CONTAINER/LUT # : 80592

DATE SAMPLED : 23-JUL-81
 TIME SAMPLED : 13100
 AREA : LAB
 MATERIAL CLASS : 6 SCRAP
 SOURCE : R11007

ANLS METHOD	CODE	EX NAME	RESULT	UNITS	TECH	COMPLETED
62	00	SCRAP ISOTOPICS	3.921	% U-235	[REDACTED]	20-AUG-81 17:10
200	00	U Titration	68.74	% U	[REDACTED]	20-AUG-81 16:14

My Copy To [REDACTED]
 I placed on his desk!

PAGE: 1
DATE: 20-AUG-81
TIME: 17108

SAMPLE # 1 240489 NO. OF TESTS 1 2

SAMPLER'S PAY #:
REQ. COMPONENT : 970
DOCUMENT NO. : COI-015
CONTAINER/LOT # : 80592

DATE SAMPLED : 23-JUL-81
TIME SAMPLED : 13100
AREA : LAB
MATERIAL CLASS : 6 SCRAP
SOURCE : RIF007

ANLS METHOD	CODE	EX NAME	RESULT	UNITS	TECH	COMPLETE
62 00	SCRAP	ISOTOPICS	3.921	% U-235		20-AUG-81 1710
200 00	U	Titration	0.00	% U		20-AUG-81 1610

*This is what
said that he found on his dice, first -
later found my copy!*

QUESTED BY: 1648R

TUBE	SAMPLE	TRAY
6121	441282	3
6283	441285	3
6334	552306	3
6348	441282	3
6360	441285	3
6389	552348	3
6394	441294	3
6398	441271	3
6405	441271	3

Tu # 3 T7 240 (see replay Run
 Did Not show IT # -
 I input there for him &
 Password:

Information in this record was deleted
 in accordance with the Freedom of Information
 Act, exemption 6
 FOIA 87-88

DIAL CODE# 8*292-5747

DATE# February 15, 1984

COPIES#

DEPT# WILMINGTON MANUFACTURING DEPARTMENT

ADDRESS# W/C 3-02

SUBJECT# ALLEGATION OF VIOLATIONS TO COMPANY PRACTICES AND PROCEDURES

You recently indicated having knowledge and proof of co-workers and supervisory personnel violating established work practices and procedures within the Chemet Laboratory. On January 20, 1984 you stated you would be taking your information to authority other than General Electric. Moreover, you have specifically refused to share this information with me as the responsible management representative of the Company.

You, as an employee of the General Electric Company, have a responsibility to fully apprise management of any such problems of which you become aware. You are expected to comply with that obligation. Therefore, you are hereby directed to discuss with me, in full detail, your concerns relative to Laboratory and Company practices and procedures by 5:00 P.M., Friday, February 24, 1984. This meeting is to be held in my office and all evidence that you have supporting your allegations must be presented.

Failure to comply with this instruction will be considered insubordination and will result in severe disciplinary action, up to and including discharge.



Manager
Quality Assurance

EAL/HDC/bct

0-13

DIAL COMM# 8*292-5747 DATE* March 13, 1984

COPIES#



DEPT# WILMINGTON MANUFACTURING DEPARTMENT

ADDRESS# M/C J-02

SUBJECT# CHEMET LABORATORY SAFETY REVIEW

, Manager
Regulatory Compliance

In accordance with our discussion, I am requesting you to conduct a safety review of the Chemet Laboratory. The basis for the review is delineated in the attached letter titled "Allegation of Violations to Company Practices and Procedures in Chemet Laboratory" submitted by dated February 21, 1984. 7

I anticipate your review will cover both radiological and industrial safety issues that may exist in the laboratory and that you will serve as chairman of the review team consisting of both radiological and industrial safety experts.

The review should include but not be limited to:

- Specific allegations contained within letter. 7
- Determination of the validity of the accusation that supervisors and management personnel knowingly bypass safety requirements.
- A review of the overall safety program as it applies to the laboratory (i.e., adequacy of training, radiation safety involvement, etc.).
- Adequacy of response when a safety problem is brought to management's attention.

I would like to have this review conducted FW-12. Please review your plan to conduct this review with me by Friday, March 16.

Manager

Portion Ex 6.7C

0-114

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 6.7C
FOIA: 87-98

February 24, 1984

To: [redacted] Mgr., Quality Assurance
General Electric

Re: Allegations of Violations to Company Practices and
Procedures

Dear [redacted]:

In reference to your February 15th letter to me concerning the above subject, I have enclosed a copy of my "Allegations of Violations to Company Practices and Procedures in Chemet Laboratory."

In it, I refer to dated documents available in the Chemet Lab for your inspection. They confirm the violations I have listed. You will note that, over a period of a year, I have brought these violations to the attention of my supervisors to no avail. *to be kept*

Spec. of { In our December 14th meeting, you said you would investigate my verbal allegations of falsification of records. When I questioned you on the outcome of your investigation, you stated that you found nothing. Had you personally followed up on these allegations, you would have found them to be valid, just as I stated them. *...*

Since I am a concerned employee of General Electric and, up to this point, have been unable to get any recognition or resolution of this problem, I hereby present to you my allegations of violations in written form.

I sincerely hope that your investigation of these allegations will eventually insure that the Chemet Lab's practices and procedures will be above repute which, in turn, will enable the lab technicians to regain their sense of self esteem.

Yours truly,

17C

DIAL CODE: B-292-5850 DATE: March 20, 1984

COPIES:

DEPT: NERO - Employee & Community Relations

ADDRESS: N/C A09, Wilmington, N. C.

SUBJECT: CHEMET LABORATORY SAFETY REVIEW

[REDACTED] Manager
Regulatory Compliance

SUMMARY

It is our opinion, based upon a review conducted from 3/8/84 through 3/21/84, that the safety program in the Chemet Lab is excellent. The following items were given specific review and all meet or exceed all OSHA, Company and safety guidelines.

1. Incident reports, maintenance work orders, and accident reports.
2. Job Hazard Analyses and Chemical Job Hazard Analyses.
3. Job Instruction Documents.
4. Lab ventilation and microwave oven monitoring.
5. Awareness and support of lab staff for safety and health practices.
6. Overall condition of lab facilities and processes.

DISCUSSION

Our evaluation of the subjects are discussed in more detail in the following paragraphs.

Review of injury, incident, and other records does not reveal any pattern or significant events that would indicate safety problems. There have been minimum injuries in the Chemet Lab. [REDACTED] bumped her head on 4/23/82; the plant physician and a neurosurgeon diagnosed the injury as a (See attachment A).

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions b1, b7C
FOIA: 87-48

0-15

March 20, 1984

Examination of job instruction documents and safety instruction sheets, including appropriate JHA's and CJHA's, substantiates that safety and health practices are in place and are administered. Employees have routinely reviewed and signed off on these documents. Among the documents in place and reviewed is GENERAL SAFETY 0.2.1, Rev. 2. This document which employees sign off routinely gives thorough guidelines on the safety, use, and handling of chemical materials and associated equipment.

Evaluation of ventilation for the hoods and microwave oven was conducted. Routine surveys are conducted by the maintenance staff of the ventilation systems performance. Records indicate that ventilation performance meets or exceeds recommended and required specifications. Attention was focused on the isotopic and O/U preparation area. Each step in the process was closely observed. There was no visible emission of chemical materials; there were no noticeable odors of chemical emissions (oxides of nitrogen) in the immediate work area. Employees in the lab indicated that rarely are chemical odors noticed during this process. Possible emissions of fumes are controlled by the hood ventilation and the oven ventilation. Such fumes are exhausted into the main duct and removed from the lab. The crucibles containing hot solutions are allowed to cool in the oven or the hood. Once the solutions cool off, the emission of fumes from the crucible is negligible. Watch glasses are placed on crucibles which aid in fume control. Fumes from chemicals in the microwave oven will not be discharged into the room. Exhaust ventilation controls airborne materials. PMO Manufacturing Engineering measured the air volume exhausted from the oven. From this volume, it was calculated that with an opening as large as 7" x 7", an adequate air velocity would be maintained to evacuate all gases or vapors from the microwave oven. Cracks around the door are far less than an opening of 7" x 7". Therefore, gas or vapor from the oven will not pass through cracks into the room. The microwave oven is also equipped with an interlock that will not allow it to operate with the door open.

The purpose and design of local exhaust ventilation in hoods or ovens is to capture and control chemical emissions. This prevents fume releases into the work area. Such ventilation cannot and will not prevent buildup of materials on the inner surfaces of hoods or ovens.

The local exhaust ventilation and use of the documented and established work practices make it highly unlikely that employees would be exposed to even low level concentrations of harmful emissions.

March 20, 1984

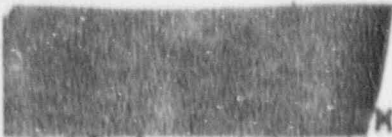
Employees' overall perception of lab management's safety concern and safety emphasis is quite high. Comments like "goes overboard" and "safety conscious" were used by employees to describe lab management's attitude towards safety. One employee stated, "They don't always do what I think is best or as quick as I'd like, but there is no question as to their commitment."

Several indicated that most employees don't really understand effects of fumes and therefore are very cautious. They ask for roundtables in which short and long term effects of fume exposure could be discussed.

There was some concern expressed by one or two employees that even though the responses to safety concerns were adequate, there was a lack of sensitivity on management's part that she really understands all subjects. Employees indicated that they believe () has convinced herself that her concerns are legit and no amount of evidence to the contrary will change her mind.

The processes do not subject employees to significant safety or health risk. Employees are aware of procedures and documents relating to safe work practices and have easy access to them. Management activities as well as administrative systems are adequate to assure safety within the lab. Some elements which evidence these factors are:

- Chemical storage is orderly and safe
- Housekeeping - very clean and neat
- Layout of lab and equipment is safe and functional
- Emergency and safety equipment is visible and easily accessible
- Safety procedures and related documents are thorough and complete
- Compliance with OSHA standards is clearly evident.

 Manager
Industrial Safety & Hygiene
NEBO - San Jose

 Manager
Industrial Safety & Health
NEBO - Wilmington

CPS:TAP:cb

Attachment

87-8012


GENERAL ELECTRIC

NUCLEAR ENERGY BUSINESS OPERATIONS
GENERAL ELECTRIC COMPANY • 173 CURTISS AVENUE • SAN JOSE, CALIFORNIA 95128

STRICTLY PRIVATE

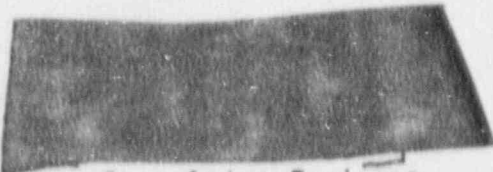
QUALITY ASSURANCE & RELIABILITY OPERATION
San Jose, California

April 26, 1984

 Manager
Quality Assurance
Wilmington Manufacturing Department
M/C J02 VLM

Subject: EMPLOYEE ALLEGATIONS OF VIOLATIONS TO COMPANY PRACTICES AND PROCEDURES

The enclosed report is issued as a result of an employee's "Allegations of Violation to Company Practices and Procedures" review which was held during the period of March 26 through March 30, 1984.


Consulting Engineer
Analytical & Test Methods
M/C 860, Ext. 56243

PJW:lle

Attachment

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6+7C
FOIA- 87-88

0-16

STRICTLY PRIVATE

Quality Assurance Review of
Employee Allegations of
Violations to Company Practices and Procedures

1. Purpose and Scope

This review was performed as a result of [redacted] request to investigate allegations which were presented to [redacted] Manager, Quality Assurance, Wilmington Manufacturing Department (WMD), in a letter dated February 24, 1984, and a copy of a document titled, "Allegations of Violations to Company Practices and Procedures in Chemet Laboratory," dated February 21, 1984, by [redacted]. This document is attached as Attachment 1. 7c

2. Summary of Conclusions

The four alleged violations of Company Practices and Procedures related to Quality presented to [redacted] were investigated by the review team and were found, for the most part, to have substance.

3. Conduct of Review

The review covered only the specific allegations presented by [redacted] related to Quality and was in response to request letters from [redacted] Manager, Chemet Laboratories, dated February 1, 1984, and [redacted] Manager, WMD Quality Assurance, dated March 13, 1984. The review team did not investigate beyond the scope of [redacted] Quality allegations. 7c

The review team members consisted of the following:

[redacted] Employee and Community Relations, Team Member
[redacted] Quality Audits and Customer Service, Team Member
[redacted] Consulting Engineer, Quality Assurance &
Reliability Operation, Team Leader 7c

An examination and investigation of WMD Instructions, Procedures, Logs, and Analytical System Readout Tapes were conducted during the week of March 26 through March 30, 1984. Interviews were conducted with the following personnel:



Pre-review and post-review meetings were held with the following management personnel:

- Manager, Hourly Employee Relations
- Manager, Qual. Audits & Cust. Serv. - Acting for E.A. Lee
- Manager, Employee & Community Relations
- Manager, Regulatory Compliance
- Manager, Fuel Quality
- Manager, Licensing & Nuclear Materials Management
- Manager, Chemet Laboratory

4. Allegations and Review Team Comments

- a) Allegation I.A.: "Analyzers are not properly calibrated following detector change."

Comments:

- This allegation appears true if one uses the Claimant's interpretation of the applicable procedure.
- Interviews of individuals involved with analyzer operation revealed a variety of opinions as to the possible meanings of the same procedural instruction.
- Differentiation between the definitions of "Calibration" and "minimum-U-count" was not clear in the Procedural Instructions COI 411, Rev. 2 and Rev. 3.

STRICTLY PRIVATE

-3-

4. (Cont'd)

- Varied interpretation of these procedures could easily create:

- inconsistencies among operators
- possible violations of procedures
- possible questionable validity of results
- possible perceptive management countenance of operator deviation from procedure
- needless loss of time because work would have to be re-performed

- b) Allegation I.A.1.d: "Calibration and verification were not completed before samples were run and material released" during 8/20/82 and 6/22/83.
I.A.2.c:

Comments:

- Allegation appears correct. The investigation revealed that, during 8/20/82 and 6/22/83, six acceptable calibrations or six verifications were not run after a detector change as required by Instruction COI 411, Rev. 2 and Rev. 3.

- c) Allegation I.B.1-4: "Results from isotopics are accessible in computer and can be altered."

Comments:

- Except for one supervisor and one operator, seven individuals interviewed who work in the area near confirmed this statement. 7
- The investigation determined that any "altering of results" was merely the correcting of data input errors.

- d) Allegation: "Use of 902/903 computer transactions are condoned by supervisor."

Comments

- Use of 902/903 transactions by someone other than a supervisor occurred when a supervisor was not present and that supervisor authorized access to the system by shift personnel. Thereafter, such individuals continued to use

4. (Cont'd)

Comments: (Cont'd)

f) (Even though instructions were issued on 2-22-83 and 1/25/84 to reemphasize that there should be limited access to 902/903, non-supervisor access continued.)

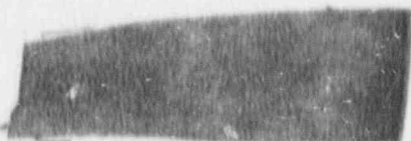
e) Allegation I.C: ["Supervisors input data under technician's password and create false data."] P

Comments:

- Supervisors acknowledged using another person's password but only with that person's consent and in that person's presence.
- Supervisors who use another person's password merely make corrections in the input to make it more accurate. There was no falsification of data.

5. Conclusion

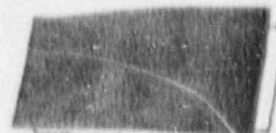
As the result of this review, the team has concluded that, as discussed above, } have substance.



Consulting Engineer
Quality Assurance Audits
Review Team Leader
M/C 860, Ext. 56243



Employee & Community
Relations, WMD
Team Member
M/C A09-WLM



Quality Audits
Customer Services
Team Member
M/C J28 WLM

Date	Technician	Sample #	Test	Test Values*					Assignable Cause/C.
				Orig	2nd	3rd	x	o	
10/1/83	[redacted]	517249	ISO	2.676					QC Released 'S
SAT		517251	"	2.676					" "
		519725	"	2.675					" "
	SS	515692	"	1.761					Insuff. info
	US	515774	"	3.063					"
		513590	"	2.163					"
		513885	"	1.332					Released by X
		513317							
4/7/83	[redacted]	524596	330CBS004	3.212					QC Released
Monday		524599	290CBS008	2.870					
Tu 13/83		524582	275CBS000	2.996					
ISO 2/1/83		525302	330CBS059	3.191					
		525304	330CBS060	3.211					
		525311	330CBS075	2.315	3.215				
		524564	295CBS011	2.862					
		524570	295CBS009	2.850					
11/8	[redacted]	525312	330CBS076	3.226					
		525318	330CBS077	3.215					
		525553	395MS018	3.227	3.211	3.216			

This is what I copied of "Re runs" that were released on another Strange - up to the time I was removed from the lab. This is the only time work like this released and then by some...

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 6 & 7. FOIA - 87-88

6

Date	Technician	Sample #	Test	Test Values*					Assignable Cause/Con
				Orig	2nd	3rd	x	c	
10/16/03	[Redacted]	517219	ISO	2.676					Ret. Released
SAT	[Redacted]	517251	ISO	2.676					" "
	[Redacted]	517225	ISO	2.675					" "
	SS	515632	" "	1.761					225.07
	White	515714	" "	3.063					" "
		513540	" "	3.103					" "
		515825	" "	1.632					Released by [Redacted]
		513377							
11/7/03	[Redacted]	524576	3300030504	3.212					Ret. Released
11/13/03	[Redacted]	524599	3300030055	2.870					
	[Redacted]	524582	3300030150	2.892					
	[Redacted]	525302	3300030329	3.171					
	[Redacted]	525304	3300030560	3.211					
	[Redacted]	525311	3300030570	2.213	3.215				
	[Redacted]	524564	3300030001	2.862					
	[Redacted]	524570	3300030017	2.350	3.850				
11/13/03	[Redacted]	525312	3300030576	3.224					
	[Redacted]	525318	3300030791	3.205					
	[Redacted]	525553	3300030018	3.227	3.224				

↑
 Can Numbers

Ma Jip

I am sending this copy for I write in can numbers, as source from which the samples were drawn

This was the only Dept work I could find as this was already "filed & stored" under lock & key.

Date	Technician	Sample #	Test	Test Values*					Assignable Cause/Comment		
				Orig	2nd	3rd	x	s		T ²	
10/9/83	[redacted]	512382	ISO	728	721	716	725		0.115	all values accept	
10/9/83	[redacted]	516274	"	1727						Shuff inform	
	[redacted]	516279	"	1864						Shuff inform	
10-11-83	[redacted]	512420	ISO	0.743	758	760	7537	.0093	1.15	All values accept	
	[redacted]	512688	"	3357	3323	3350	3341	.0124	1.15	2.325 Outlier	
	[redacted]	514831	"	2258	2221	2307	2229	.0241	1.15	NO OUTLIER	
0-12-83	[redacted]	516446	"	3734	374	3700	3707	.0103	1.15	NO OUTLIER	
	[redacted]	514804	"	1349	1331	1320	1333	.0121	1.15	NO OUTLIER	
10-13-83	[redacted]	513504	"	3267	3161	3178	3200	.0569	1.15		
	[redacted]	514897	"	2041	2035	2000	2007	.0097	1.15		
	[redacted]	514824	"	1386	1304	1322	1321	.0100	1.15	(all values acceptable)	
2-13-83	[redacted]	516276	"	1922	1856	1804	1893	1897	.0057	1.15	170 OUTLIER
0-12-83	[redacted]	516174	"	3670	3700	3671	3653	.0297	1.15	3.7150 outlier	
10-13	[redacted]	513078	"	2708	2412	2435	2593	1697	1.15	2.7080 Outlier	
"	"	513572	"	1347	1435	1422	1387	.0125	1.15	No outliers	
10-13	[redacted]	513957	"	2198	2257	2251	2235	.0345	1.15	No Outliers	
	[redacted]	511803	"	2046	2120	2112	2109	.0122	1.15	No Outliers	
	[redacted]	513441	"	2204	2204	2162	2190	.0202	1.15	2.162 outlier	
0-14-83	[redacted]	515620	H ₂ O	5547	5503	4921	5223	551.9	1.1500	4561 outlier	
8/15	[redacted]	511616	ISO	1780	1758	1730	1753	.0061	1.1504	All values acceptable	
"	[redacted]	513982	"	3191	3115	3125	3102	.0175	1.15	All values acceptable	
10/16	[redacted]	519249	"	2696						OR Release	
	[redacted]	517251	"	2670						OR Release	
	[redacted]	515725	"	2372						OR Release	
	[redacted]	515612	"	1261						Shuff inform	
	[redacted]	515214	"	3663						Shuff inform	
	[redacted]	513570	"	3103						Shuff inform	
	[redacted]	515185	"	1933						OR Release	
	[redacted]	511181	"	1702	1620	1643	1637	0.0001	1.15	1.855 outlier	
10-17	[redacted]	515064	"	2014	2038	2020	2024	.0004	1.15	2.014 is outlier	
	[redacted]	517305	"	1750	1770	1770	1737	.0030	1.15	no outlier	
0-16	[redacted]	51493	"	3147	3265	3239	3217	.0220	1.15	No Outlier	
2-14-83	[redacted]	518875	"	277						Not completely dist	
10-18-83	[redacted]	51250	"	2700						OR Release	
	"	51301	"	3100	3063	3108	3155	.0341	1.15	no outlier	

Not on System

could not find results on the plant site
 Not on plant site

Date	Technician	Sample #	Test	Test Values*						Assignable Cause/Comm
				Orig	2nd	3rd	x	s	T*	
11/1/83	[redacted]	520690	Iso	1.742	1.762	1.749	1.751	.005	1.16	NO OUTLIER
11/1/83	[redacted]	522754	Iso	2.251	2.223	2.227	2.227	.0140	1.15	NO OUTLIER
11/2/83	[redacted]	519989	ISO	3.725	3.724	3.722	3.722	.0063	1.15	NO OUTLIER
		522642		0.815	.862	.794	1.4031	.0106	1.15	No outlier
		519979		3.660	3.674	3.671	3.671	.0025	1.15	No outlier
11/3	[redacted]	524412	ISO	2.347	2.352	2.344	2.347	.0189	1.15	NO OUTLIER
		520359		3.144	3.165	3.174	3.159	.0189	1.15	NO OUTLIER
		517259		3.947	3.969	3.948	3.952	.0124	1.15	NO OUTLIER
		521654		1.565	1.563	1.564	1.565	.0026	1.15	NO OUTLIER
11/3/83	[redacted]	516767	ISO	3.834	3.858	3.845	3.845	.0102	1.15	NO OUTLIER
		521554		3.143	3.158	3.163	3.154	.0155	1.15	NO OUTLIER
		521607		3.188	3.194	3.167	3.181	.0155	1.15	NO OUTLIER
		519836		1.270	1.292	1.277	1.279	.012	1.15	NO OUTLIER
		519992		3.788	3.794	3.788	3.793	.0070	1.15	NO OUTLIER
4/8/83	[redacted]	519819	HO	6.713	6.825	6.626	6.740	.11925	1.15	No outlier
11/8/83	[redacted]	523448	HO	5.353	5.150	5.717	5.407	.2918	1.15	NO OUTLIER
		516767		1.990						
		521554		3.173						
11/5/83	[redacted]	520564	ISO	3.948	3.910	3.925	3.926	.0125		NO OUTLIER
11/5/83	[redacted]	517790	ISO	2.920	2.954	2.958	2.962	.0325		NO OUTLIER
11.5.83	[redacted]	525711		3.913	3.894	4.039	3.949	.0482	1.15	NO OUTLIER
"		524141		3.892	3.913	3.969	3.933	.0325	1.15	NO OUTLIER
"		526164		3.855	3.853	3.957	3.885	.1085	1.15	3.885 is outlier
11/6/83	[redacted]	526152	ISO	3.990	3.940	3.917	3.966	.0350	1.15	NO OUTLIER
11/1/83	[redacted]	524576		3.212	✓					DC. Rel. [redacted]
		524577		2.890	✓					Wrong ANS
		524582		2.890	✓					
		525302		3.791	✓					
		525304		3.211	✓					
		525311		3.212	3.216					
		524564		2.817	✓					Wrong ANS
		524570		2.850	3.950					
		525751	L	2.676	2.095	2.010	2.076	.0110	1.15	2.095 is outlier

discussed
 sent out
 released
 sample

not on plant
 site when
 released by

Note: I could not find "printouts" on other samples - but 360 Trans. showed they were
 ANSULERS CL.

RERUN LOG

Yellow: Manager, Lab
 Pink: Measurement Control
 Gold: File

Date	Technician	Sample #	Test	Test Values*						Assignable Cause/Comments
				Orig	2nd	3rd	x	s	"T"	
11/6/83	[Redacted]	525253	120	2027	2063	2024	2088	2077	115	20630 is outlier
		525254		2026						QC Rel [Redacted]
		525255		2025						QC Rel [Redacted]
11/6/83	[Redacted]	525256	120 ^{occ}	3502	3971					Acceptance
		525257		2481	3971					QC Rel [Redacted]
		525258		2308	3718	3940	3934	3615	1.15	3.800 is outlier
11-8	[Redacted]	516268	"	1981	1974	1926	1977	1936	115	No outlier
"	"	525259	"	2707	3015	2788	3200	013	1.1535	3111 is outlier
11-9	"	524226	"	3138	3027	2015	3029	043	1.158	3138 is outlier
11-9	[Redacted]	524314	150	2460	2381	2423	2407	015	1.15	No outlier
11-11/83	[Redacted]	525266	120	2122	2189	2091	2182	0156	1.15	No outlier
"	"	525224	"	2822	2887	2912	2878	0465	1.15	No outlier
"	"	524305	"	2450	2376	2426	2481	0111	1.15	No outlier
"	"	525231	"	2387	3017	2998	2902	0656	1.15	No outlier
11-10/83	[Redacted]	521861	150	3223	X	X	X	X	X	Sample over 150
11/10	[Redacted]	519264	120	2442	Y	Y	Y	X	Y	Sample with 120
11/11/83	[Redacted]	525256	120	3271	3816	324	3207	10076	1.15	No outlier
11-12	[Redacted]	517220	"	2102	2113	2101	2103	0207	1.15	2113 outlier
"	"	524102	"	2210	1980	1921	1921	1130	1.15	2210 outlier
"	"	524103	"	1950	1924	1923	1920	0055	1.15	1950 outlier

SAMPLE # 1 52553 NO. OF TESTS 1 2

DATE: 08-NOV-97
TIME: 10153

SAMPLER'S PAY # [REDACTED]
COMPONENT NO. 187
INCOME NO. 20
PARTY CR/LOZ 3953MS0019

DATE SAMPLED : 7-NOV-97
TIME SAMPLED : 10150
AFSA : RPU
MATERIAL CLASS : 1 002
SOURCE : 133

CODE ANZ	NAME	RESULT	UNITS	TECH	COMPLETED
80	11 FROD ISOTOPICS	3.971	U-235	[REDACTED]	9-NOV-97
20	701 O/U in U	2.057	U-235	[REDACTED]	9-NOV-97

3.871

Why did I alone
release # 524591 under
done it - I was by
that I released it - The
told that I had
the paper work - I show
it was with him & for R.
I had & all for
Brought to [REDACTED] attention
also told him about Po
& Sir. Pallet must not
said had used it
shows). He did not want to
own mistake! I had to show on
second page of ISO report it will show
who released it

Here are 3 copies of
reports "released" to
[REDACTED]
Oth.
also
the
Exec
as I wa

6
6
releases & was in "Outliers"
Talked to [REDACTED] that was to be
Talked to [REDACTED] that day. Do release
material - told him that there were
releases! But let out in
the first "non" from [REDACTED]
some of the other
wrong. (The 110 Test
after you put in
those covered?)
Also, Dawson has on the
site at the time of

CHEMICAL LABORATORY TEST REPORT

* MAIL TO: 197-C-8

SAMPLE # : 525311 NO. OF TESTS : 2

DATE: 8-NOV-87
TIME: 1015Z

SAMPLER'S PAY # : [REDACTED]
REQ. COMPONENT : 997
DOCUMENT NO. : PROD 00-11
CONTAINER LOT # : 330080075

DATE SAMPLED : 8-NOV-87
TIME SAMPLED : 07130
AREA : 800 W
MATERIAL CLASS : 1 002
SOURCE : 31294

CODE	ANZ	NAME	RESULT	UNITS	TECH	COMPLETED
207	11	PROD ISOTOPICS	3.215	U-235	[REDACTED]	8-NOV-87 10
205	701	DU 12 U	2.055	DU 12 U	[REDACTED]	8-NOV-87 10

2.215

CHEMET LABORATORIES SAMPLE REPORT

MAIL TO: 107 C&E

PAGE: 1
DATE: 08-NOV-83
TIME: 1015Z

SAMPLE # : 524570 NO. OF TESTS : 2

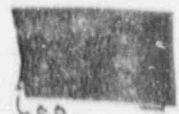
SAMPLER'S PAY # : [REDACTED]
REQ. COMPONENT : 997
DOCUMENT NO. : PROD 80.96
CONTAINER/LOT # : 2950880017

DATE SAMPLED : 8-NOV-83
TIME SAMPLED : 00130
AREA :
MATERIAL CLASS : 1 U02
SOURCE : BL31204

ANLS CODE	ANZ	NAME	RESULT	UNITS	TECH	COMPLETED
60	11	PROD 1500 PICS	1.850	% U-235	[REDACTED]	8-NOV-83 10
205	701	O/C IF U	2.070	O/C Ratio	[REDACTED]	8-NOV-83 10

↓
2.850

395 ENR



Do not have a legible copy

(357) IN ReRun Log

6

Wiley did blame me for
 this... I had a...
 Don't...
 that I...
 told...
 the paper...
 it was...
 I had...
 brought...
 Oles...
 & Sir...
 said...
 (shows)...
 own...
 second...
 would...
 of IS's...
 at

blame me for
 under
 the signature
 - The Production person
 was
 Samples that were to be
 released that were in
 bottles
 I did
 - Talked to...
 material -
 talk...
 means!
 - The first...
 & some...
 among...
 after you...
 what correct?
 * Also...
 site at the time of



2.95 ENR



↓
2.850 In Return log

do not have a legible copy



3.30



2.215 In Remembrance

Do not have a legible copy

MEMO

CLASSIFIED

P 381 748 968

Walt

CERTIFIED

P 391 748 988

MAIL

