

CHEMET LAB
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SHEET

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TO DISTRIBUTION: Attached is a revised copy of COI/ 411 Rev. 3
 Titled: ISOTOPIC U-COUNT LIMIT CHANGE CRITERIA - Issue date: 02/09/83
 Please place this plan in your assigned manual(s), revise your index to reflect the current title, issue date and revision status and destroy all obsolete copies.

(REFERENCE: P/P 70-37 and 70-38 for standard distribution.)

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

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 APPROVED BY: [REDACTED]

WILMINGTON
MANUFACTURING DEPARTMENT

CALIBRATION AND OPERATION INSTRUCTION

GENERAL ELECTRIC

REV: 3

REFERENCES: N/A

ISSUE DATE: 02/09/83

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SUBJECT: ISOTOPIC U-COUNT LIMIT CHANGE CRITERIA

1.0 PURPOSE:

This COI provides criteria by which equipment and/or standard changes will require the rederiving of the minimum U-count limit for the RIP005 standard on the Enrichment Analyzer Systems.

2.0 SCOPE:

This COI documents the equipment and/or counting standard changes which either will or will not require the limit on the U-count for the RIP005 w/o U-235 standard to be recalculated. Responsibilities are defined between the C&IS Unit and the Chemet Laboratories for specific actions under this COI.

3.0 RESPONSIBILITIES:

- 3.1 The C&IS Unit is responsible for communication of equipment changes on the Enrichment Analyzer Systems to the Chemet Laboratories' Lab Supervisors and/ Test Operator and for completion of the Equipment Change Logs as per 4.3.
- 3.2 Lab Supervisors or Test Operators are responsible for recalculation of the U-count limit for the RIP005 standard as provided by this COI.
- 3.3 The MCP Technician is responsible for the maintenance of a U-count history for five (5) years.

4.0 PROCEDURE:

- 4.1 Table 4.1 provides the change criteria which impact the RIP005 U-count limit and requires the limit to be rederived through multiple counting of the RIP005 standard. Where new limits are not specified in Table 4.1, limits are not to be rederived unless specifically authorized by the Manager of the Chemet Laboratories.
- 4.2 Equipment Change Log: A log is to be kept at each analyzer with equipment changes noted. The log is to contain the model number, serial number, pay number of person making the change, and date/time of the module changes made to the system to which the log is assigned.
- 4.3 Amplifier settings following any repeaking shall be recorded on the Equipment Change Log for the assigned analyzer.

PREPARED BY	DATE	APPROVALS	DATE	APPROVALS
INDEP. REVIEW	2/1/83	OCE	2-1-83	NMM
CHEMET	2/5/83	WE		
OTD		C&IS	2/4/83	

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5.0 LIMIT REDERIVATION:

5.1 The RIPO05 standard is to be counted 7 times through either running the calibration or more times using a utility program or running verifications. It is necessary for these counts to be within a 24-hour time period. Analytical results may be issued prior to finalization of limits.

5.2 The minimum U-count limit is to be recalculated for SCP #401 by the Lab Supervisor using the following:

Minimum limit = Average U-count

Minimum limit = Average U-count

5.3 The Lab Supervisor and/or Test Operator will post the new limit at each analyzer, enter the new limit into the analyzed software program and provide the MCP Technician with a copy of the new limit for the history file along with the computer printout.

6.0 REFERENCES:

6.1 N/A

7.0 DISTRIBUTION:

7.1 Standard.

"TABLE 4.1 - EQUIPMENT CHANGE CRITERIA"

<u>EQUIPMENT</u>	<u>ACTION</u>	<u>RESPONSIBILITY</u>
Detector change.		C&IS
Preamplifier.		C&IS
Amplifier.		C&IS
Single Channel Analyzer.		C&IS
Counter (scaler).		C&IS
Preset.		C&IS
Actuator.	No action required.	N/A
High Voltage Power Supply.		C&IS
Change of Standard Vial.	Rederive the RIP005 U-count limit.	Lab Supervisor
Change of Standard Solution.	Rederive the RIP005 U-count limit.	Lab Supervisor

NOTE: ALL EQUIPMENT CHANGES MUST BE NOTED,

RIP/dvc/2