#### CHEMET LAB .

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TO DISTRIBUTION: Attached is a revised copy of me /SCP # 400 Titled: ISCTOPIC AND O/U BY GRAVIMETRIC TECHN 125 - ISSUE DATE: 06/18/82 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 dist.	The state of the same of the same	STREET, SQUARE,

CL #156 Rev. 3

record was deleted -! SSUE DATE: 05/14/82

in accordance with the Freedom of Information BY:

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#### MANUFACTURING DEPARTMENT



SCP NO.	400	CMAS METHOD(S)	1.2.15.1 and	5.2.9.	.5		11-1-		PAGE 1 C	¥ 8
NO.	PARAMETER OR CHAPACTERISTIC	ACCEPTANCE UMITS	GAGE, STANDARD OR METHOD	0	FREQUE	NCY			N TO TAKE	
1.0	Equipment Calibration.	Valid date.		, i	Deily.		Do not Notify		visor.	
2.0	Balance Verification.	+ .0005g		1	Before es of sample weighed.		calibr	ration	balance using lever. Reper check.	
3.0	Crucibles.	Clean and room temperature to touch and no visible cracks.			Each crux used.	ible	Recle	en and	dry crucible	
PREPARE	D BY	TE Sports		DATE	APPRO	AND DESCRIPTION OF THE PERSON NAMED IN	DATE		PROVALS	DATI
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SCP N	0. 400	CMAS METHODIS	1.2.15.1 and 5.2.	05	P REV. 1 DATE 06/18/82
NO.	PARAMETER OR CHARACTERISTIC	ACCEPTANCE	GAGE, STANDARD OR METHOD		PAGE 2 OF I
4.0	Worksheet and trays.	N/A.		Each group.	N/A.
.0	Crucible weight.	N/A.		Each crucible.	Reweigh crucible.
.0	Sample weight.	4. Isotopic: 4.5000 ± .0200g		Each sample.	Reweigh sample.
.0	Oxidation Temperature.	B. 0/U only: 10.0000 ± 1.5000 A. Low: 525 ± 50°C B. High: 900 ± 25°C	Read temperature gauge.	Prior to removal of sample from furnace.	Adjust tampersture, contact supervisor if furnace temperature will not adjust.





SCP NO	. 400	CMAS METHOD(S	1.2.15.1 and 5.2.	9.5	PAGE 3 OF
NO.	PARAMETER OR CHARACTERISTIC	ACCEPTANCE LIMITS	GAGE, STANDARD OR METHOD	FREQUENCY	ACTION TO TAKE IF OUTSIDE LIMITS
8.0	Oxidation time, Low temperature.	>2 hours.	Clock. Finter time IN and OUT on work- sheet.	Each pellet sample.	N/A.
9.0	Oxidation time, High tempera- ture.	2 hours +60 min.	Clock. Enter time IN and OUT on work- sheet.	Each sample.	N/A.
10.0	O/U Verification Pellet.	Per LMCS.		One per day.	Per 001-002.
11.0	Oxidized sample weight.	A. Cooled to room tempera- ture by touch.		Each sample.	Void measurement if greater than 8 hours after removal from furnace.
		B. Weigh within 8 hours after oxidation.			
2.0	Nitric acid concentration.	1.1680 + .0050		Once per day.	Notify supervisor. DO NOT USE ACID.





SCP NO.		AND O/U BY CRAVIMETY CMAS METHOD(S)	1.2.15.1 and 5.2.		REV. 1 DATE 06/18/82 B
NO.	PARAMETER OR CHARACTERISTIC	ACCEPTANCE LIMITS	GAGE, STANDARD OR METHOD	FREQUENCY	ACTION TO TAKE IF OUTSIDE UMITS
13.0	Acid dispenser	30.0 ± 1.0g		Once per shift.	Notify supervisor. DO NOT USE ACID.
14.0	Sample covers.	Clean.		Each dissolved sample.	DO NOT USE. Recleam or discard cover.
15.0	Uranyl nitrate cooling.	Room temperature to touch. 90 + 30 mins.		Each tray.	Notify supervisor.
16.0	Sample spillage.	No visible signs.		Each sample.	Reprepare samples.





SCP NO	. 400	CMAS METHOD(S)	1.2.15.1 and 5.2.	9.5	PAGE 5 OF 8
NO.	PARAMETER OR CHARACTERISTIC	ACCEPTANCE LIMITS	GAGE, STANDARD OR METHOD	FREQUENCY	ACTION TO TAKE  IF OUTSIDE LIMITS
17.0	Solution weight.	N/A.	1	Each sample.	Allow to cool an additional hour.
18.0	Counting tubes.	Numbered from 7000 to 7999.		Each tube.	If not numbered properly, take to supervisior. If not clean or dry, reclean and dry.
19.0	Counting tube fill.	1) 10 ml + .1 ml		Each sample.	1) If solution is not immediately transferred, reweigh the sample.
		2) No visible signs of wetness or residue.			2) Do not use tip if it is dirty or wet.





SCP NO.	400	AND O/U BY CRAVIMET	1.2.15.1 and 5.2.			06/18/82	-
NO.	PARAMETER OR CHARACTERISTIC	ACCEPTANCE UMITS	GAGE, STANDARD OR METHOD	FREQUENCY	ACTION TO S	TAKE	8
20.0	Calibration.	N/A.		At least once per week or when verification standards fail to meet limits.	N/A.		
20.2	Calibration Verification.	Computer Soft- ware and/or Posted.		At least every 13th counting cycle	A. Chis check peak recalibrate.  B. Rorum unknowns good verificat	since las	
20.3	High Standard U-Count.	As posted at work station and/or analyzer computer.		Each calibration.	Discontinue analys C&IS (K's.	sis until	
20.4	Control Charting.	Per LMCS.	Per (01-002.	Each calibration verification and MCP standards.	Per 001-002.		





SCP NO	. 400	CM&S METHOD(S)	1.2.15.1 and 5.2.		REV. 1 DATE	7 OF	-
NO.	PARAMETER OR CHARACTERISTIC	ACCEPTANCE LIMITS	GAGE, STANDARD OR METHOD	FREQUENCY	ACTION TO TA	KE	
20.5	Bias Adjustment Factors.	As posted.		Each shift and each time soft- ware entered into calculator.	B. Contact supervi	sor.	
21.0	Sample Calculation.	N/A.		Each sample.	N/A.		
22.0	Reporting	N/A.		Eech unknown.	N/A.		
	Unknowns.		showing pertinent (cont'd, next page)				





SCP NO.	400	AND O/U BY CRAVIME CMAS METHOD(S)		SCP RE	
NO.	PARAMETER OR CHARACTERISTIC	ACCEPTANCE UMITS	GAGE, STANDARD OR METHOD	FREQUENCY	ACTION TO TAKE IF OUTSIDE UMITS
22.0 Contd)			data. For non-gravi- metric preparation samples, log desig- nated values on work- sheets and return to responsible techni- cian. For Gu/G iso topic preparations, review final results against OOI-403 and report as applicable.		