

ISOMEDIX OPERATIONS INC
CONTAMINATION DETECTION WORKSHEET

FACILITY Whippany, NJ

STORAGE CASK

DATE: 16-Jul-96

SCALER:	EQUIPMENT	SERIAL NO.
DETECTOR:	EBERLINE MS-2	681
SOURCE:	LUDLUM MODEL 243 (NAI)	055497
	COBALT 60	89CO600128

A: SCALER SETTINGS: HV SET: 2.94 THRESHOLD 6.00 WINDOW 8.00
SWITCH: ON

B: EFFICIENCY CALCULATION

1. COBALT 60 STANDARD:

CALIBRATION DATE: 01-Apr-89 ACTIVITY: 0.0082 uci

CURRENT ACTIVITY:

DECAY FACTOR: 0.3826 ACTIVITY: 0.0031 uci 6965 dpm
1 uci = 2.22×10^6 dpm

2. DETECTION COUNTS	@ 10 min.	cpm	MDA (dpm)	MDA (uci)
BACKGROUND COUNT (BC):	1166	117	248	0.00011
Co60 STANDARD (CoC):	15282	1528		

3 EFFICIENCY = ((CoC cpm - BC cpm) / dpm Co60 STANDARD) * = 20.27 %

	SAMPLE ID	SAMPLE COUNT (SC)		NET CPM (SC-BC)	EFFIC.	REMOVABLE CONTAMINATION			REMARKS
		@ 10 min.	cpm			dpm	uci	unit	
1.	CASK LID SAMPLE #1	1191	119	3	20.27	12	< MDA	100 cm ²	
2.	CASK LID SAMPLE #2	1141	114	-3	20.27	12	< MDA	100 cm ²	
3.	CASK SIDE #1	1156	116	-1	20.27	5	< MDA	100 cm ²	
4.	CASK SIDE #2	1160	116	-1	20.27	3	< MDA	100 cm ²	
5.			0	0	20.27	0	< MDA	100 cm ²	
6.			0	0	20.27	0	< MDA	100 cm ²	
7.			0	0	20.27	0	< MDA	100 cm ²	
8.			0	0	20.27	0	< MDA	100 cm ²	

NOTE: DETECTION OF 500 DPM OR MORE OF REMOVABLE CONTAMINATION REQUIRES NOTIFICATION TO THE RPO

TECHNICIAN

SIGNATURE: Jim Kaur 7/16/96

Form 1524.1
Rev. A

ITEM # 41

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