123427 Radiation and Contamination Survey Report

Survey Number

West Valley Nuclear Services Co.

Location VIT MEOA
Work Area VIT CELL

Purpose Of Survey CHARACTERIZATION RAD SURVEY OF MELTER, CFMT, MFHT,HEME AND VARIOUS EQUIP

Additional Information Attached ☑ YES ☐ NO ☐ ON BACK

Instruments Used

	TYPE	SERIAL #	EFF
☐ SCINTILLATION			
☑ GM	2241	151610	
☐ IONIZATION			
☐ PROPORTIONAL			α
☐			β

AREA/MATERIALS SURVEYED	SMEARABLE NET (DPM/100 cm²) COUNT TIME___MIN		DIRECT CHECK NET CPM		RADIATION LEVEL			
	ALPHA	BETA	ALPHA	BETA	READING	DISTANCE	Cor Factor	Cor Reading
~~SEE ATTACHED~~ PAGES (5)								

CONCLUSIONS - AREA/MATERIALS ☐ RELEASABLE ☐ NON-RELEASABLE ☑ INFORMATION ONLY

COMMENTS (IF ANY):

RECOMMENDATIONS: ☐ NO FURTHER ACTION REQUIRED ☐ FURTHER ACTION REQUIRED

IF FURTHER ACTION REQUIRED, DESCRIBE:

Technician Name BRODAY, JACK M **Date:** 04 Feb 2004
Signature: Jack Broday **Time:** 1700

Reviewer Name (Print): R Richmond **Date:** 2/5/04
Signature: R Richmond **Time:** 0700

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SMEARABLE NET (DPM/100 cm^2) Count Time Min.		
#	ALPHA	BETA

COMMENTS:

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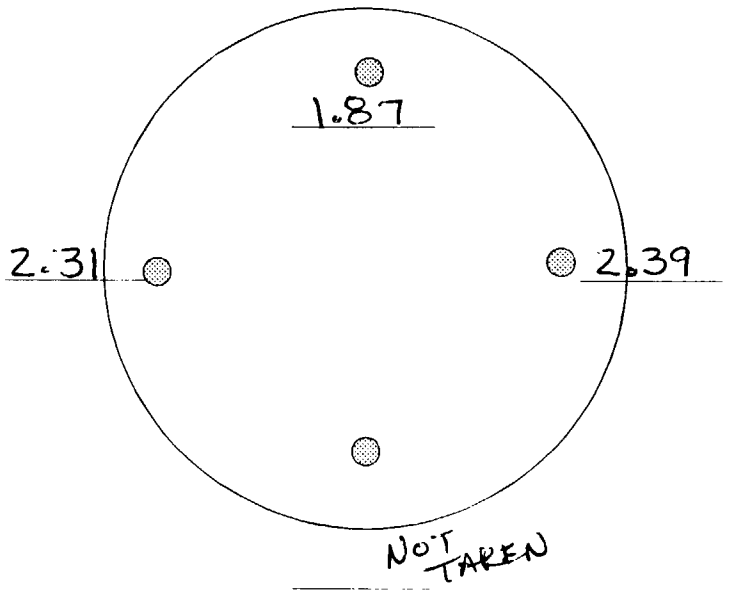
Survey #123427

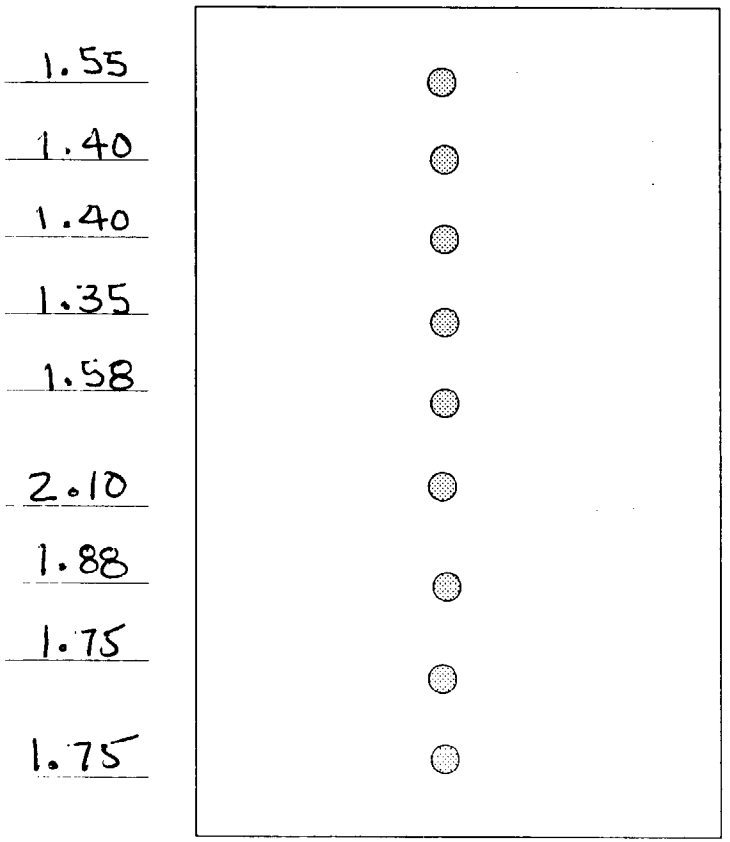
Survey Plan for MFHT

N

Survey Point (Pointing toward the Tank)



Plan View
Readings to be taken on four quadrants, legs contacting the flange on top (if possible)



Elevation View (Looking Northwest)
Readings to be taken at approximately 1 foot intervals

NOTE: ALL DOSE RATES IN R/HR

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Survey Plan for Melter

● Survey Point (Pointing toward the Tank/Toward the Floor)

Elevation View (Looking East)

Looking toward melter/Looking down at floor

Readings to be taken at approximately 1 foot intervals

NOTE: ALL DOSE RATES IN R/HR

1.61 / _____

1.18 / _____

1.05 / _____

0.70 / _____

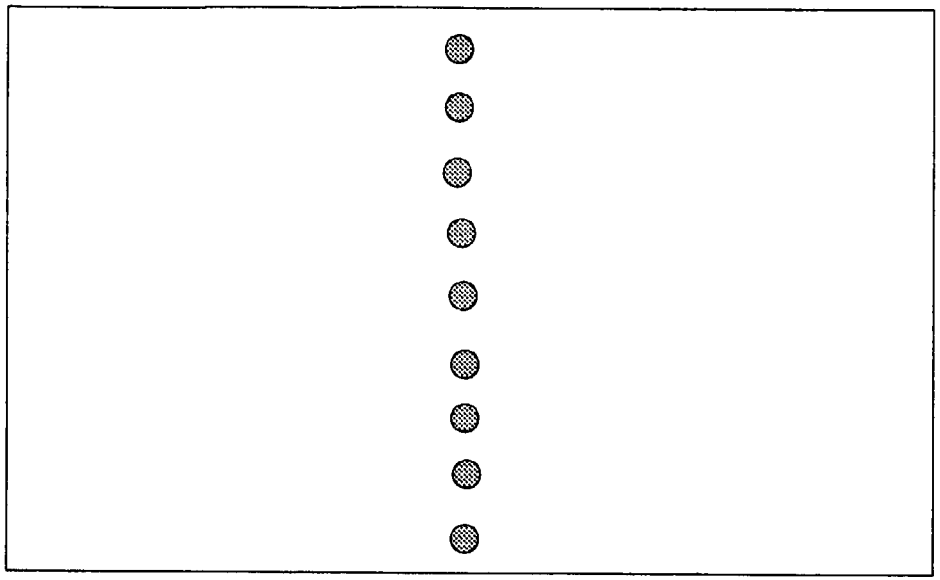
0.44 / _____

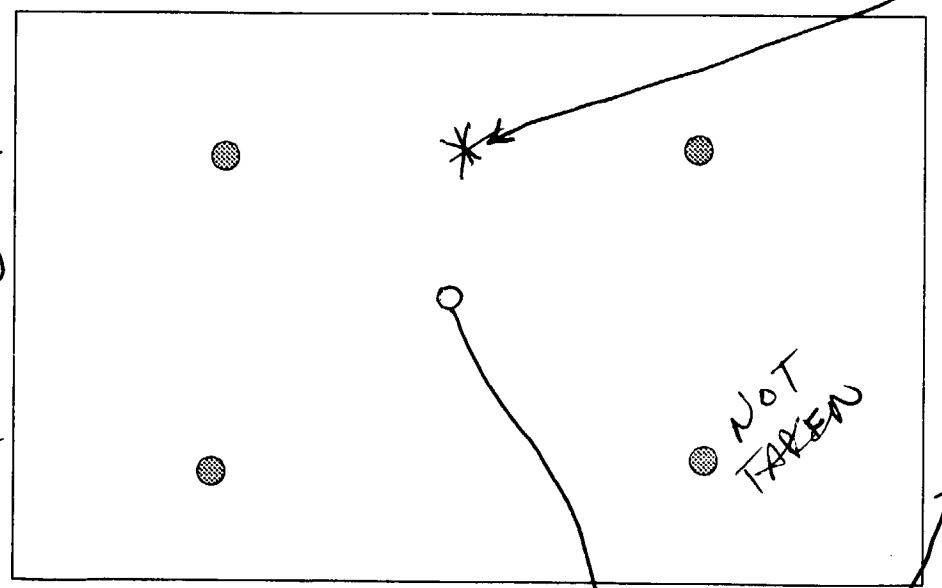
A-I-beam Support → 0.40 / _____

0.395 / _____

0.430 / _____

0.325 / _____





2.10 R/HR

Between R1 and R2, ~~SOUTH~~ North near the window, legs contacting surface

1.35 R/HR

(Over R1 flange, Standoffs contacting)

1.12 R/HR

(Over R2 flange, Standoffs contacting)

↑N

1.96 R/HR

Southeast of "D" flange, legs contacting surface.

2.35 R/HR

Approx 10 feet above, looking down over "A" nozzle

Plan View (Top view)

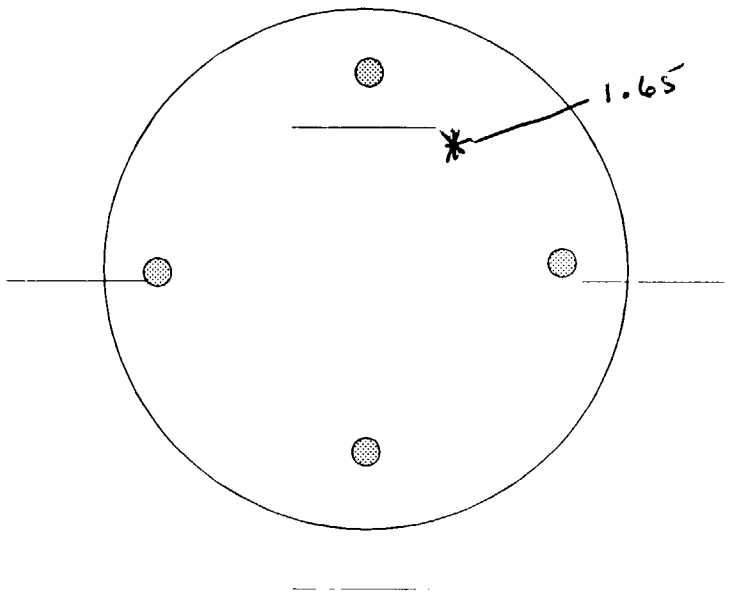
Readings to be taken approximately at center of 4 quadrants

SURVEY # 123427

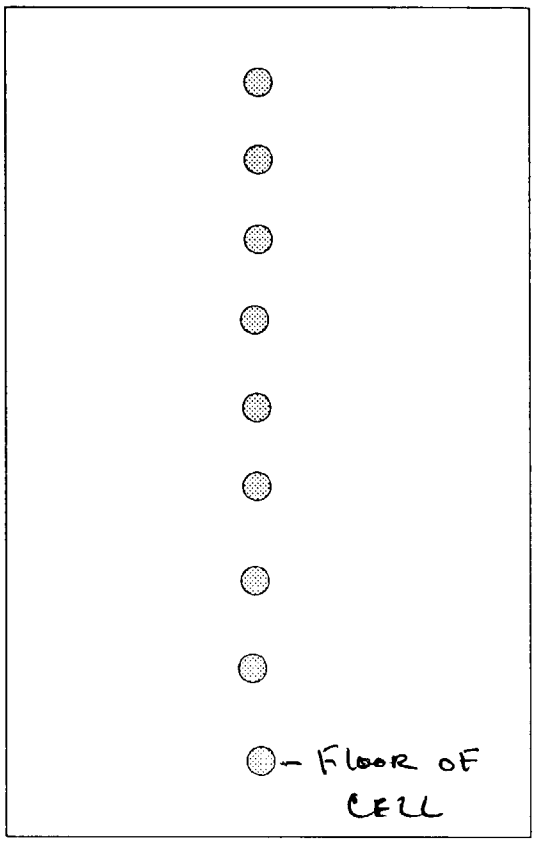
Survey Plan for CFMT

NOTE: ALL DOSE RATES IN R/HR

Survey Point (Pointing toward the Tank)



Plan View
Readings to be taken on four quadrants. legs contacting the flange on top (if possible)



Elevation View (Looking Southwest)
Readings to be taken at approximately 1 foot intervals

Description	Radiation Reading
Approx 3' west of maintenance station, looking down toward floor ≈ 1' off EDGE	2.2 R/HR
NE END OF CFMT prior Decon	1.25 R/HR
AFTER Decon EFFORT	~~1.26~~ R/HR 1.23 JMB 2-4-04
SBS NWEST SIDE AT TOP SIDE* 2ND READING ≈ 1/2 Down 3RD " AT BOTTON	3.89 R/HR 6.01 22.5
HEME 63-T-033 @ MID PLANE ≈ 6" From CT JMB 2-4-04 ~~NEAR BOTTOM~~ ≈ 7' From Top	175 R/HR 172 R/HR
≈ 1/2 Down Decon Tank (South tank)	160 MR/HR

* Note: SBS level shows 1" on receiver and 0" on the bed

List of components we want to get readings of

NOTE: Prior to getting the readings, contact Ed Lachapelle to be out in the field with you. (If he's not able to be reached, take the readings anyway.)

✓ CFMT (a few shielded probe readings down the side, and over the top, looking down, contacting the legs with the tank)

✓ MFHT (a few shielded probe readings down the side, and over the top, looking down, contacting the legs with the tank)

✓ SBS (a few shielded probe readings down the side, and over the top, looking down, contacting the legs with the tank)

✓ Decon station tanks (a few shielded probe readings down the side, and over the top, looking down, contacting the legs with the station over each tank)

✓ HEMEs (a few shielded probe readings down the side, and over the top, looking down, contacting the legs with the tank)

Vessel vent line (if we can get it)

Turntable (readings over the top)

Weld Station (readings over the top) Can't do because there's a jumper hose

✓ Melter (readings on the side)

NOTE: The wire brush decontamination has to be done on the side of one of the vessels. Do this also.