ATG Inc.

.

INTERIM REPORT

PROJECT MANAGER'S LOG

Radiological Characterization

Fort McClellan, Building 3192 and Grounds Anniston, AL

November, 1994

10/31/94 - All personnel travelled and arrived safe and sound. People present - O'Dou, Ruprecht, Young, and Spicuzza.

Sample bottles purchased for urine samples and film purchased for survey documentation.

The objective should continuously be: Gather as much information as we can to effect complete remediation at the lowest cost.

11/1/94 - Initial arrival on-site, we all met with John May and Lisa Kingsbury. John is the facility RSO, and Lisa is the Head of the Environmental Section. We discussed the expectations John has regarding the conduct of work and needed services and supplies. A telephone at the facility would be too costly, a phone is available most of the time in the Military Police museum. Toilets are also available there.

We arrived at the building 3192 site and setup our counting lab in the building office. This place was a mess when we arrived, there was trash all over, barrels scattered throughout the building, samples from Chem Nuclear sampling piled in the shower, and the building obviously was not cleaned in many years. John May gave us a very good tour of the facility and explained most of the questions we had thusfar. We discussed the area where the tanks were outside, the control pit was excavated according to John May. This is a discrepancy from the Chem Nuclear report which indicated the contamination levels in the pit and the need for decon and/or removal of the pit.

The background is a little high on the Ludlum 2929 in the office, due to the hot cell opening at the just outside of the office. Beta/gamma background about 115 CPM, Alpha about 1 cpm. There is concern over possible fluctuations in line voltage, but a surge suppressor will not work, a constant voltage transformer is appropriate but not available.

An initial general area survey of the building revealed spotty areas of contamination, mostly in the rafters and on top of objects in the overhead.

J.R. made initial efforts at mapping the facility, most sketches done. Some material was released after frisking. Our criteria is no detectable counts above background.

The hot cell door was opened after finding the right circuit breaker (transfer switch), a brief survey of the cell found activity concentrations in the range of 1000 to 5000 dpm/wipe loose. The table in the cell is covered with oil due to leakage from the shield window. This window is filled with mineral oil and has dimensions of 18" X 30" X 34". This corresponds to a volume of approximately 5.5 cubic feet. Since the window has lost some of it's oil over the years, it may contain as much as 35 gallons of oil.

Safety and site specific work plan training were completed.

11/2/94 - We continued to map the facility, the grass was cut which will be a great help when the sampling crew gets here from Mobile tomorrow. We gained access to the hot cell and scoped out the major portions of that room. The crane works good. We pulled one of the plugs into the floor. These plugs are made of solid metal (steel or steel and lead) and provided shielding for the multicurie sources which were stored or fabricated there.

Contact was made with Pope Engineering of Mobile AL. They will be here tomorrow for sampling of the tank/control pit area to a depth of 12 feet. I asked John May if there would be any interference from underground services. John indicated that all services were removed by Chem Nuclear when the tanks were removed. I also stated my concern for the discrepancy in the Chem Nuclear report that the control pit was not removed at that time. John indicated that the Control Pit was removed.

We discussed the survey methods for the ventilation system. We attempted to rent a saws-all and a drill. The rental store owner could not take credit cards and would not rent to anyone from out-of-town. We opted to buy the equipment to facilitate doing the survey. The saws-all will be used to cut an opening into the vent duct walls and provide an entry point to survey from. Bought several miscellaneous items for surveys.

Barrels were moved to a location down the road from the building in order to allow more room in the building, and decrease the radiation fields inside the building.

Met with Mike Styvaert and discussed project to this point.

Sample bags purchased for the adventure in sampling tomorrow.

11/3/94 - The sampling crew arrived today to cut the core samples down to 12 feet. Pope Engineering representatives began at 0830 to cut the holes and take samples. Dan worked with them for coverage. There is significant concrete in the vicinity of where the Valve Control Pit was located. It appears that this area may have simply been filled with soil. A bore hole was attempted in this area, concrete was found at a depth of about 6 feet, and rock was encountered below the concrete.

Received tyveks, gloves, forms etc. from Fremont.

Conducted wide area survey of the facility room perimeters.

Jamie worked on the ventilation system exterior survey. J.R. continued to collect data for mapping, and constructed survey maps in preparation for survey of the facility.

The hot cell has two radiation detectors, one for the waste disposal pit, and one for the hot cell back wall.

Bought boxes for shipping samples and bioassays, and chalk line for gridding hot cell.

Prepared a list of items to be deconned, and a list of things likely to be waste. This is planned to be continued to determine a cost of waste disposal and remediation of areas and components which could be deconned or simply surveyed and released.

11/4/94 - Sampling continued today with two more cores taken. Some soils were found to contain activity at higher elevations of the core holes during scintillation detector surveys of the holes. The Pope Engineering people left site around 10 am.

The valve control pit area could not be penetrated beyond 6 feet. There was much concrete in that area and it looks like most of the pit structure was left. Question: Does anybody have release surveys for the valve control pit??

Depth profile surveys of the holes drilled for sampling were completed today. Two holes have profiles which indicate the presence of activity at about 1 foot into the soil. Most others did not indicate any activity above background.

Hot cell work commenced today. We scraped the surfaces of the cell that had seriously peeling paint to reveal the under surface for survey. The paint is held in a separate bag pending determination of the lead content of the paint.

The shield plugs were removed, surveyed, and replaced into their shrouds in the hot cell. Each plug has a shroud which is removable within the steel plate. It appears as though it could be easier than originally anticipated to remove the shields and plate assembly. The levels identified ranged from 10,000 CPM to >500,000 CPM inside the shrouds with the cylindrical sodium iodide crystal (2" x 2"). The activity on the shields was measured with a pancake probe, and up to 500 CPM (gross) was observed. There was no alpha activity on any of the surfaces surveyed.

Survey of the air conditioning building is complete with mostly fixed activity found outside the vent unit itself. Mostly, the fixed activity exists in the top surfaces of the walls and on the structural components of the roof.

A portapotty was delivered to the site at about 10:30 am. This will assist in completion of work without delays this weekend. General area swipe surveys were completed for the classroom area.

John May and Sgt. Baugh visited the site for a short while near the end of the day. I asked that the B-25 box be moved to the back of building 3180, and asked for surveys that were done to release the valve control pit. John indicated that he would look for the surveys.

11/5/94 - Continued survey of the hot cell. Removed the hot cell table to facilitate gridding of entire cell and to further reduce background radiation in the cell. The table had levels up to 5000 dpm/wipe and up to 800 CPM/frisk. The table was wrapped and taped and placed in the classroom for temporary storage. When attempting to cut the legs off the table, 4 sawsall blades were broken. We opted to remove the table from the frame prior to wrapping and cover the contaminated portions of the frame (feet etc.) to facilitate storage in the clean area.

Completed gridding of the hot cell into one square meter grids, and highlighted grid corners with paint. Conducted direct frisk readings on the walls of the cell in at least three areas of each grid square. Also identified highest reading areas in each grid. In general, the cell is not a hazard. No respiratory protection is required and dosimetry although used would not be required by regulation.

Smear counting is our biggest slowdown. With a two minute counting time, the 2929 is minimally acceptable - two systems would be much better.

Received the pipe probe from Richland today and also received the safety harness from Fremont. Thank you for your support!

Exterior surveys of the building were completed with the 2" by 2" Sodium Iodide probe and Model 3 Ratemeter. Some spots were identified above background, one remote from the building or the tank burial site but within the fenced area.

John May visited the site, we discussed the valve control pit (which was reviewed but never released by NRC). We also reviewed the work completed to this point and preferred remediation plans.

11/6/94

Conducted swipe survey of hot cell walls, crane components, crane tracks and hot cell roof. Swipes to be counted at 2 minutes due to need for time and to obtain information indicating >200 DPM.

Prepared soil samples and bioassays for shipment - to go tomorrow.

Collected surface soil samples in all areas external to building 3192. All samples to be sent to TMA Eberline for analysis.

Began expedition into the overhead areas. Direct readings on top of the shield door - 6000 CPM. Seams to be a large fraction of this is loose. A swipe taken in that area read 2000 CPM. This provides even more reason to move the door past it's normal positions during remediation.

General area surveys in the overhead range from 100 to 10000 dpm/100 cm².

Continued exterior surveys of the building grounds. Identified several locations above background.

11/7/94 - Began cutting into ventilation and survey of ventilation system. Insulation was removed from four areas three in the exhaust vent lines, and one in the return line from the classroom. Five cuts were then made into the ducts to facilitate survey through the holes. Only low level contamination <200 CPM gross found inside. The ducts seem to be easily deconned.

We asked that Ken make up some copies of the floor plans for the building. Those were delivered by Ken at 10:15. I asked that Ken set up an exit meeting for me to meet with John May tomorrow for an exit briefing. The briefing will present the results of our surveys and projected remediation thoughts. I briefed Ken on the minor amounts of contamination found both inside and outside the building.

Lisa Kingsbury and Ken Baugh returned about 1100 and scoped out moving of the B-25 box to the back of the other building to support low level survey of the area.

Completed counting of smears from inside the hot cell. The hottest smears are from the wall on the west side of the cell in the area where the ventilation duct was removed from.

Completed survey of the hot cell door trough. The trough has low level fixed contamination and the door has low level fixed and smearable contamination. The remediation of the door will be difficult because of it's weight and position. It may be possible to jack it back away from the door opening and then jack up one side to facilitate decon. Then the motor and movement mechanism could be removed, deconned, and reinstalled. The wheels represent another challenge. It may also be possible that the door will not be recoverable without removal. In the case of removal, a crane will have to be used to lift it out of the roof over the hot cell area on the east side of the building. Surveyed back side of hot cell door.

Exterior surveys, surface soil sampling outside, and sample preparation are complete.

Completed interior surveys on top of the hot cell and in the overhead.

Conducted meeting with crew to go over objectives and ensure completion of all aspects of the project prior to exit tomorrow.

11/8/94 - Completed final surveys of office space.

Completed accountability lists for equipment and surveys. Ensured accountability of all surveys, air samples and other data.

Shipped samples of soil, water, sludge, and initial bioassays.

Packaged equipment for transport back to Genoa.

Conducted exit interview with site personnel at 1330 in Siebert hall.

Conducted cleanup of the building and grounds.

11/9/94 - All personnel traveled home.

Note: This log is for information purposes only. It is the intent of this project manager to review this log for identification of important aspects of the project to ensure timely notification of the customer regarding the radiological status of the facility characterized. This document may change as it is reviewed and evolved into the final log of activity during the job.

1.5-194

Thomas J.-O'Dou, CHP - November 8, 1994

ATG Inc.

INTERIM REPORT

Radiological Characterization

of

Fort McClellan, Building 3192 and Grounds Anniston, AL

Prepared By:

Allied Technology Group, Inc. 1515 Main Street Genoa, OH 43430

November, 1994

1.0 INTRODUCTION

This report discusses the completion of characterization of Building #3192 and grounds for radioactive materials at the Army Chemical School at Fort McClellan, AL. including facility condition and recommendations for remediation. Included in the report are discussion and results of surveys completed and samples taken to assure appropriate preparation for remediation of the site. This is an interim report because sample results will not be received for at least three weeks from the issue date of this report.

Work on the characterization of the facility began Tuesday, November 1, 1994. Allied Technology Group, Inc. (ATG) management coordinated the project with Fort McClellan contacts for any problems that may be encountered.

The work for this job included use of material release criteria from the guidance given in USNRC regulatory guide 1.86, Termination of Operating Licenses for Nuclear Reactors dated June 1974 and a USNRC policy letter Guidelines for Decontamination of Facilities and Equipment Prior to release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material dated August 1987. Surveys conducted to release materials from control as radioactive demonstrate compliance with this criteria. It is noted that this criteria is the only applicable guidance for this type of facility remediation.

Included in this interim report are a copy of the radiation and contamination surveys (attachment 1.) Sample analysis results will be included with an evaluation and recommended remediation methods for outside the facility. Also attached are list of materials released during this characterization, materials recommended for release during the remediation phase, and materials likely to be waste from the remediation phase.

2.0 PROJECT PERSONNEL

- 2.1 The initial crew consisted of a Project Manager, Site Supervisor and two(2) Senior Health Physics Technicians.
- 2.2 A brief abstract of information from resumes of personnel involved in the characterization effort is included as attachment 2.
- 2.3 All personnel attended a pre-job training session at which job scope and the details of the project work plan were discussed. This session included specific safety details for the work and the type hazards expected.

3.0 DISCUSSION OF WORK

- 3.1 The first two days on site at Fort McClellan consisted primarily of performing Site Health and Safety training, required OSHA training, setting up the count room, and performing radiological pre-work survey of the interior and exterior of building 3192 areas.
- 3.2 Maps were made of all facility walls, floors, and ceiling spaces in the hot cell, office, air conditioning room, shower, and in the classroom.
- 3.3 Any excess materials which would be in the way or cause increased background levels of radiation during the characterization survey were removed from the building for release as clean after appropriate surveys or were labeled and wrapped, then moved outside for storage.
- 3.4 Samples were taken in the area where radioactive material storage tanks had previously been placed until their removal in 1985. These samples were taken as deep as 12 feet when possible and were separated into 3', 6', 9', and 12' samples when available.
- 3.5 Questions about the existence of a valve control pit as described in the Chem Nuclear exit report were somewhat resolved with a partial excavation of the area by sampling. The base RSO, John May indicated that the valve control pit was cleaned by his staff, and the remainder of the pit was left in place and filled in with clean fill after appropriate removal of radioactive material and surveys.
- 3.6 The hot cell was surveyed thoroughly to get a complete picture of the radiological control profile for the facility. Loose surface contamination was found to be most prevalent on the walls surrounding the position where the work table was located. The table had previously been cleaned, removed from the cell, wrapped, and stored as radioactive material.
- 3.7 The ventilation system was surveyed thoroughly to identify contamination levels and the most important radiological hazards in this system.
- 3.8 A list of all materials which could be surveyed and released or remediated, surveyed, and released was prepared. Also, a list of all materials which would likely be considered waste was made. These lists will facilitate preparation of the work plan for the remediation, they are included as attachment 3.

4.0 **PROJECT STATISTICS**

4.1 Total manhours expended at the site was 308. Travel accounted for a total of 80 man-hours, the total characterization including travel, 372 man-hours.

Day	. 1	2	3	4	5	6	7	8	9	10	
Man-hours	40	32	36	32	37	38	39	48	40	40	
Travel Days	Т									Т	

4.2 The most significant items which will present a challenge during remediation are:

a. The hot cell door, 8' x 7' x 3' solid steel and concrete, estimated at 5 tons.

b. The facility drain lines which have been filled with concrete and are embedded in the high density concrete of the hot cell shield. It is estimated that this shield floor is at least 4 feet thick. Also, other drain lines from the facility.

c. The shield plugs and shield plug shrouds within the hot cell. There are 16 plugs, each plug is 2'6" long by 6" diameter. Each shroud is welded to a steel plate 1" thick and extends into the concrete floor to fully enclose the shielded material when present.

d. The hot cell crane, a one ton suspension crane is in very good condition and should not represent significant removal problems. The crane will be needed in the beginning days of the remediation to remove the shield plugs from their shrouds.

4.3 The estimated total activity at the facility is less than 0.5 millicuries. This is based on a rough calculation of surface area activity concentrations and the levels identified during the surveys.

5.0 CONCLUSION

5.1 The Fort McClellan Radiation Safety Officer was provided with copies of the following:

The Project Managers Log at the exit meeting.

- 5.2 A post work briefing was held with the Fort McClellan Radiation Safety Officer on Tuesday, November 8, 1994 at 1330. A discussion of all job activities was conducted at that time. Neither Fort McClellan management nor ATG personnel were aware of any unresolved items. The people at Fort McClellan were very cooperative during the job and provided assistance, when requested, in a timely manner.
- 5.3 Work at the facility does not represent a radiological health hazard.

ATG Inc.

Appendix 1

Radiological Characterization

of

Fort McClellan, Building 3192 and Grounds Anniston, AL

Radiological Control Surveys

Allied Technology Group, Inc. 1515 Main Street Genoa, OH 43430

November, 1994

RADIATION/CONTAMINATION SURVEY LOG

.

. :

i

	<u></u>			T	Pag	e <u>l_of</u>
.\TGS #	DATE	TIME	PROJECT	DESCRIPTION OF SURVEY	# OF PAGES	TECHNICIAN INITIALS
100-11	11-2-94	1000	Fre W. Chil	Hot CEll TRENCH	2	111/
FOR-002	11-sat	2101		Shower En Floor	2	Ro
100-M	12-9-	1045		Vandiletion Out	2	Ex.
FM-004	1-3-94	0710		FLOOD	A	101
1 H-002	1-3-94	0-130		Sewer TANK	1	Cal
FM-006	11-3-94	0800		CLASS RM. WALLE CEILING	1	hil.
m-007	11/3/94	1400		Release of MATERIALS	2	- He
FM-008	11 3 94	1000		Class Ran Shield Wail (Roo)	1	-720
-m-009	11/3/94	1200		CLASS Room Aruna (RAD)	1	CTZRO
-11-010	1114/94	2101		For Balaba	2	
10-14	ululay	1020		Core SAMPLE	1	iou
FM-012				HAINWAY WARS, OUTSIDE FRONT of HOTCELL, VENTILITO	10	
5 M-013				Ils Hot Call	2	
F-14-014				ILS Hot Cell	2	ea
	11-5-94			RELEASE of MAturials		
· · · ·	11-6-94			#19 survey -/ Hot Cell		
-M-017	11-6-94	0620		019 1812 2192 WALL JOWN 144-10	/	
-M-018	1	1115		OIS WILL INA		- Old
", W-019		7		WALKLOWN JULY-10 IS GALLON	2	1005
TW-010	1			Blag star Bart linet		9
·m-021				Top of Hot (FII		
-W-022	1	1		Top of Hot CEll	2	
FM-023				H. Ender FAM	R	
Fm-024				Hot CELL DODR	E E	- VQ
=W-025	157.00	1770		Hot CELL DOOR		
[m-026					<u>L</u>	-10
1-1M-126	1			Office Rm. Blog 3192	3	- Al-
-M-027	1			Hot Cell Flast	2	Rh.F.
TGT-002	1 6 7 1		<u> </u>	Calling of Hat Call		RAR

Defice 11-8-94

09/93

RADIATION/CONTAMINATION SURVEY LOG

. .

į

·..

•

30000 #	1		T	I	Page	2 Jof J
ATGS #	DATE	TIME	PROJECT	DESCRIPTION OF SURVEY	# OF PAGES	TECHNICIAN INITIALS
=M-028	11-8-94	1030	Ethechile	Hot Cell Signey	14	RXP
EM029	11.891	1130	11	Hot Cell Signey Ventilation Rm	9	RAA
						· .
			- 1/1	<u>N</u>		
			-14	<u></u>		
						<u> </u>
37-002						L
					QT.	411 11-8-94

MATERIAL RELEASE LOG

•

•

.

Date	ATGS#	Item Description	Technician Print/Sign	Evaluator Signature or NA	Rele Appro ^{H.P.} Supervi Signatu
11-3-94	FULOOI	Mac. Itema	SpannestEllering	o the	Al
1-4-9+	FW-00	Dollar Equilled	Demons Dawing	Nt	Dola
11-5-94	FM-015	MANIPULATOR Pieces	J. Young S. Ulam	JA	D2
X			12012		
					1
	K				
				•	
		<u> </u>		-	
		<u> </u>			
•		MA			1
		12/			<u> </u>
			<u> </u>		
		· · · · · · · · · · · · · · · · · · ·	+		
			<u> </u>		
			<u> </u>		
				<u> </u>	
					\rightarrow

Depuisa 11-8-94

- RADIOLOGICAI

Page / of 2

Sec. Sec.

ATGS #: <u>Fm-001</u>		SUR	/EY	REP	ORT	مور ۱۹۰	
DATE 11-2-94		INST	RUMENTA	TION U	SED		
TIME 1000	MODEL	S/N	EFF.%	BKRD		DUE DATI	
SURVEYOR J. Voung	M-3B8	102498 98/12	<u></u>			-5-94	
LOCATION Bldg 3193	m-19 2529 2929	- <u>22043</u> - <u>49043</u>	NA 10 44 35 00 18 88	- 90	m! 3-7	4-5-94	
REVIEWED BY		A_	18 B8	98 cp.	7 3-1	<u>9-94</u> A	
Smear Locations Circles; Dose	Rates-	mR/hp 70				N	
IN UR/home, BS	CTERIZAT CH ALL IN CPM.	TON READING		RESUL	EAR RES TS = DPI JNLESS NO	M/100cm ³	
North	X		Ð	#	¨ Вγ	α	
	* β * β * β * β * β * β * β * β				SEE		
07-001							
						09/93	

Page 2 of ATGS #: 0 01

SMEAR COUNTING ANALYSIS REPORT

Date: //-2-94	A	nalysis	Performe	ed by:		
	COUNTING	SYSTEM	DATA		3-10-1	
INSTRUMENT ID: <u>99043</u> EFICIENCIES: a 3596	βy_18 4	E	ETECTOR	ID:	<u>98327</u>	
MDA: <u>a 13 dpm</u>	BY_188	dem				
PERFORMED BY:		airent	Descut	<u> </u>		
a Background: <u>9</u> cpm	<u>A</u>		Report I		т □µСі <u>98</u> срі	
SAMPLE ID OR DESCRIPTION	00000					
SAMPLE ID OR DESCRIPTION	GROSS (βγ	NET CO a	JUNTS βγ	Acti a	vity βγ
1	1	96	0.1	- 2	L MDA	
)	.5	106	-0,4			
3	2.5	99].6	a /		
4	2	99.5],[1.5		
5	1.5	97.5	0.6	-0.5		
6	/	113	0,1	15		
. 7	0	116	-0.9	18		
8	1	101	0,1	3		
9	.5	101,5	-0,4	3.5		
10	.5	107.5	-0.4	9.5		
	0	105.5	-0.9	7.5		
12	0	107	-0.9	9		
· 13	<u> </u>	96	0.1	-2		
	0	96.5	-0.9	-1,5		
15	/	96	0.1	-2		
110	1.5	113	0.6	15		
A			A			
			//			
Remarks: TRINCH in Front		<u> † Cell</u>	DOOR			·····
	a.h.			11.1-9		

Reviewed by

Date

09/93

ATGF-006

.

Page of 1.

DATE 11-2-94		INST	RUMENTA	TION USE	ED	
TIME 1015	MODEL	S/N	EFF.%	BKRD	CAL. DI	JE D
SURVEYORD Spices	12-3-5-	971951 102499	-14-	UY-CIU		-94
LOCATION Shower	MESK	97124	2096	Oczi		-4
REVIEWED BY During the	1-1929	39043	235	29 cpu		-qu
Smear Locations Circled; Dose	Rates=	mR/hr		MACRU		
PURPOSE OF SURVEY: Chinke	762.2	Adian		RESULT	AR RESUI S = DPM/1 ILESS NOTE	00cm
<u> </u>				#	ßγ	α
L'IOURY DUT SIDE	WALL /	/ / /	M			
2 /0x - × 19/4 / /	x yext		En l	NA	ee	(
XISK - + > + = K	+100	58 7	<u> </u>		V	<u>ec/</u>
S GZ	0.				reat	2
X30X	-XVEVE	incontr	-	7		
XINGE BE	-x vsx		}			
E		× III	+			
+1005 07 074			ļ			
OK XIHK XIGK X	5					
					× –	
					$ \rightarrow $	
Floor toria shawes a u	sile 2	iseat	ŀ			
Probe surveyed.			~ 			
					\backslash	
Powerke, N					N	
Remarks: Mous K=1.0	DOCE	vi				
No detectable & con	Asuch	1. 0				

Page 1 of 1. ATGS #: FUL-OOL

SMEAR COUNTING ANALYSIS REPORT

Date: 11-2-94	P	nalysis	Performe	ed by:	J. Youn	5
INSTRUMENT ID. 99043	coomine	UIUILII T	DATA DETECTOR			
EFICIENCIES: a <u>3576</u> MDA: a <u>13 d pm</u> PERFORMED BY: <u>J. 4 comq</u> Sample Count Time: <u>2 min</u>	βγ <u>184</u> βγ <u>188</u> α	7				-
Sample Count Time: 2 min	<u> </u>	Activity	Report 1	[n: 🖾 dp	m 🗆 µCi	
a Background: <u>9</u> cpm			/ Backgro			
SAMPLE ID OR DESCRIPTION				NET COUNTS α βγ		vity βγ
1	.5	107	-0.4	9	LMDA	LMDA
2	,5	-	-0.4	_		
3	.5	100	-0.4	2		
4	.5	107.5	-0,4	9.5		
5	1	93.5	0.1	- 4.5		
6	0	104	0,9	6		
	·					
	ļ					
		A				
	N					
	<u></u>		L		ļ	
			ļ			
			ļ	$ \rightarrow $	\	
	_	ļ			$\downarrow \searrow$	<u> </u>
			<u> </u>			
Remarks: <u>SHOWERS Floor</u>	<u> </u>	<u> </u>	<u>]</u>	<u> </u>	<u> </u>	
	Ani		· · · · · · · · · · · · · · · · · · ·			
Reviewed by	The			U-1-9 Date	¥	

ATGF-006

Page \land of \checkmark .

RADIOLOGICAL SURVEY REPORT ATGS #: <u>FW-003</u>

INSTRUMENTATION USED DATE 11-2-94 MODEL S/N EFF.% BKRD CAL. DUE DATE TIME 1045 4-5-95 M3X 97407 10_ OCEL SURVEYOR W-2919 avert 01499 20 CMA W-5-95 5 99043 ACEU 19-2-4-LOCATION 5191 99am A REVIEWED BA Smear Locations Circled; Dose Rates= mR/hr in the states SMEAR RESULTS PURPOSE OF SURVEY: CT.ALA $RESULTS = DPM/100cm^{3}$ UNLESS NOTED This is a survey of the βγ # α VentilAtion whit in Foldy. 3197. 00 See PAge 3 of 3 for MAT Remarks: Noup 09/93 ATG7-001

Page of

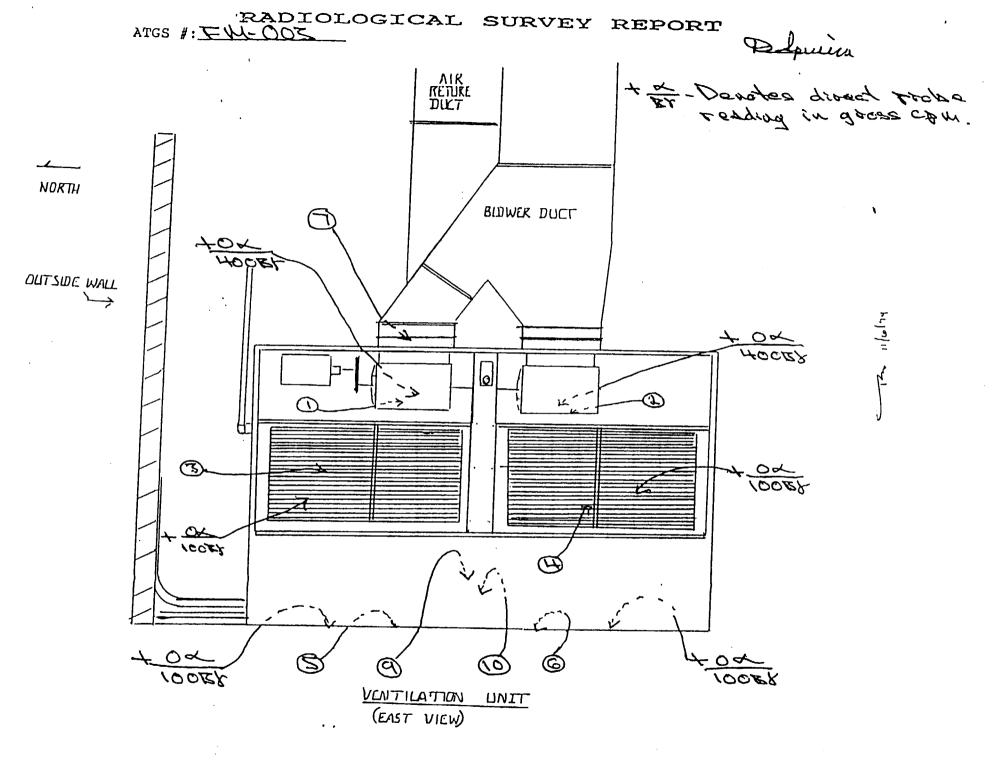
ATGS #: FWLOOT

SMEAR COUNTING ANALYSIS REPORT

Date: 11-2-94	A	nalysis	Performe	ed by:	J. Youn 13-10-1	6
INSTRUMENT ID: 99043 EFICIENCIES: a 3576 MDA: a $13 dpm$ PERFORMED BY: $1.4 mm$ Sample Count Time: $2min$	βy 18% βy 18%d	E mo	ETECTOR	ID: <u>0</u>	98327	_
	A	ctivity	Report :	In: Ødp	m 🗆 µCi	·
α Background: <u> </u>		βγ	Backgro	ound:	<u>78</u> cpr	n
SAMPLE ID OR DESCRIPTION	GROSS a	COUNTS BY	NET C	OUNTS BY	Acti a	vity βγ
	.5	112	<u> </u>	14	< MON	ZUNDA
2	221	100	.6	2		
3		111	• \	3		
4	2	98	$ \rangle$	0		
5	Õ	108	- 4	10		
6	7.1	100	0	1		
7	7	120	- 4	22		1
8	\	94	.\	-4		
9	.2	91	- 4			
В	.5	101	-4	<u>र</u>		
R.						
		N				
						+
	N/			1		
				\sim]	1
					\square	1
					<u> </u>	
Remarks: UEntilation IN.	SIDE; 1	All SME	ARS <	MDA		
Dan	Nice Ci	In .		11-1-2	<u>z</u> y	
Reviewe	d by			Date	5	

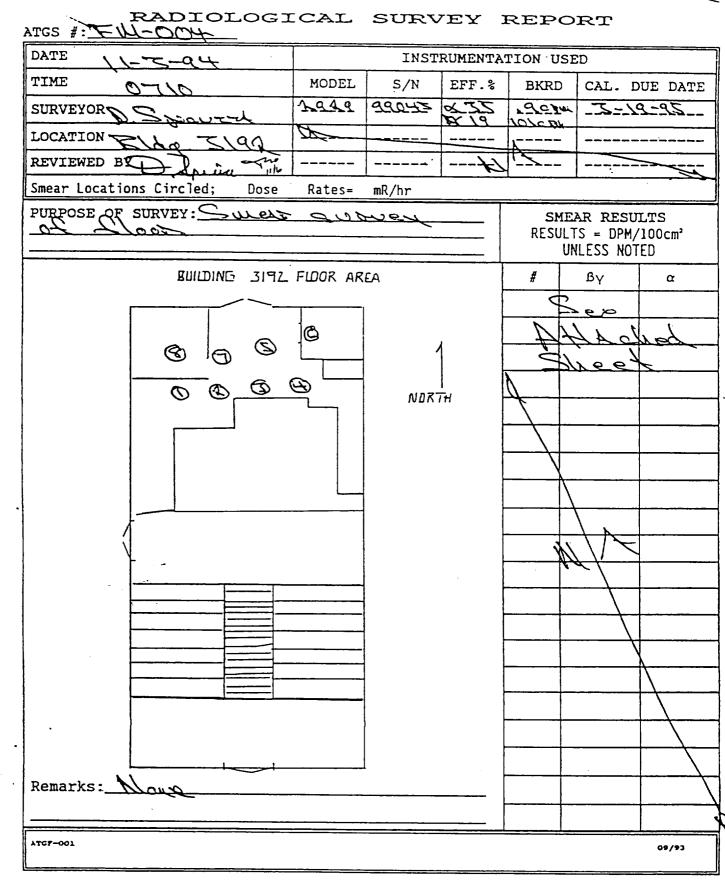
ATG7-006

•



.

Page ____ of ____.



1

, î

Page 1 of 1

ATGS #: FUL-00=

.

.

SMEAR COUNTING ANALYSIS REPORT

Date: 11-3-94	A	nalysis	Performe	d by:		
INSTRUMENT ID: 99045 EFICIENCIES: a 556 MDA: af5dpu PERFORMED BY: D Spinore	COUNTING BY <u>\</u> BY <u>\</u> S\ d	ie Lon	ETECTOR		<u></u>	
Sample Count Time: <u>Autis</u>	A 	ctivity	Réport I	in: `& dr	om 🗆 µCi	
a Background: cpm	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	βγ	Backgro	ound: <u>\</u>	CPr	n
SAMPLE ID OR DESCRIPTION	$\begin{array}{c cccc} GROSS COUNTS & NET COUNTS & Activity \\ \hline \alpha & \beta\gamma & \alpha & \beta\gamma & \alpha \end{array}$					vity βγ
<u> </u>	<u>\</u>	97	•	-4	KUM	ZMDA
1	2	103	101	2	<u> </u>	
3	Zel	97	06	-4	<u> </u>	
4		100		5		
<u> </u>	0	103	9	2	<u> </u>	<u> </u>
G	-7.	109	4			
	7.1	102	.6			
6		106	6	2		-b-
			+			
			·			
						+
	<u></u>					
		LA-	+	<u> </u>	·	
	-N-	7	<u> </u>			
			\square	}		
				\frown		
				+	\rightarrow	+
				+	+	\geq
Remarks: Sulpho Sub	Ven o	2 26				<u> </u>
	d by	2 11/0		Dat		
ATGF-006				<u></u>		

•

 $Page \int of \int$.

ATGS #: EW-005	CAL	SURV	YEY :	REPC	RT	
DATE 11-3-94		INST	RUMENTA	TION US	ED	
TIME 0730	MODEL	S/N	EFF.%	BKRD	CAL.	DUE DATE
SURVEYOR DE SPICE 274	1	10822	-44	MKCTU		2-4-2-92
LOCATION Sewer LAS	De					
REVIEWED BE			in C			
Smear Locations Circled; Dose	Rates=	mR/hr				6
PURPOSE OF SURVEY: Chinks	Jenir	Lere.		RESUL	CAR RES TS = DP NLESS N	M/100cm²
1 sludge a 1 the	SAU	ple		#	βγ	α
obtained on 11-2		-		V		
Ox level: 20,000 CC		in HS;	Oppur			
MOLELO DOMO GX.						
				V		
10x 11×	-			Λ	-	
ADVE	\setminus				\	
	20K					
154 204	÷/			- N		<u> </u>
rove	2015				<u>~ '</u>	
roe						
IN				 		<u> </u>
4						-\
·.						-\
				-	<u></u>	
~ J' at the in 2				}		
TANK MILL in di	America	· ·	£			+
Remarks: Ferding - the K=1,000 cpu		<u>ن</u> ې	alice.		·····	
ATGP-002 TAAL & &' dee'				<u>ll</u>		09/93
		· · · · · · · · · · · · · · · · · · ·				

i

Page / of 6.

RADIOLOGICAL SURVEY REPORT DATE 11-3-94 INSTRUMENTATION USED TIME 0800 MODEL S/N EFF.% BKRD CAL. DUE DATE M.Ja 100502 SURVEYOR J. Vount 20 OCEM 4-5-9 M. SAX 10 35 00 19 BX 80 Cpm 2129 44043 LOCATION · ý ýen 101 CPM REVIEWED BY " /~ /94 ->-<u>A</u>-Smear Locations Circled; Dose Rates= mR/hr PURPOSE OF SURVEY: CHARACTERIZATION SMEAR RESULTS RESULTS = DPM/100cm³ UNLESS NOTED 'Βγ # THIS IS A SURVEY OF DESINATED α AREAS IN CLASS RM. of Bldg. 3192 HCHED Remarks: NONE ATG7-001 09/93

Page_2_ of_6_.

ATGS #: <u>FM-001</u>

SMEAR COUNTING ANALYSIS REPORT

Date: 11-3-9:4	Analysis Performed by: J. Young										
EFICIENCIES: a 35% MDA: a 13 dpm PERFORMED BY:	COUNTING	SYSTEM I									
Sample Count Time:		Activity	Report	In: Scop	m D µ	Ci	•				
a Background: cpm	βY Background: <u>\O\</u> cpm										
SAMPLE ID OR DESCRIPTION			NET C		Activ						
	.5	97	-0.4	-4	< ma	A	LMDA				
2	/	99	0.1	-2							
	1.5		0.6	/3							
4	3.5	110.5	2.6	9.5							
S	.5	103.5	-0.4	2.5							
	2	100			├─── <u>}</u> ──						

	1.5	114	0.6	/?				
<u>н</u>	3.5	110.5	2.6	9.5		1		
5	.5	103.5		2.5		1		<u> </u>
6	2	100	1.1	-/		1		1
7	1.5	97.5		-3.5		1		
8	1.5	107.5	0.6	6.5		1		
9	0	109.5		8.5		1		
10	2	94	1.1	- 7-				
	1	105.5	0.1	4.5				
12	.5	101.5	-0,4	.5				
	. ,5	99	-0.4	-2				
-14	.5	105	-0.4	4				
15	.5	93	-0,4	-8				
16	.5	107.5	-0,4	6.5				
17	2	107.5	1.1	6.5				
18	/	96.5	0.1	-4.5	.]			
Remarks: <u>All SMEARS</u> <	<u> </u>	104	-0.9	3	ł		Ţ	

W:

Reviewed by

۰.

- - - -

11/2/94

Date

ATGY-006

...

.

09/93

Page_3 of 6 ATGS #: <u>FM-006</u>

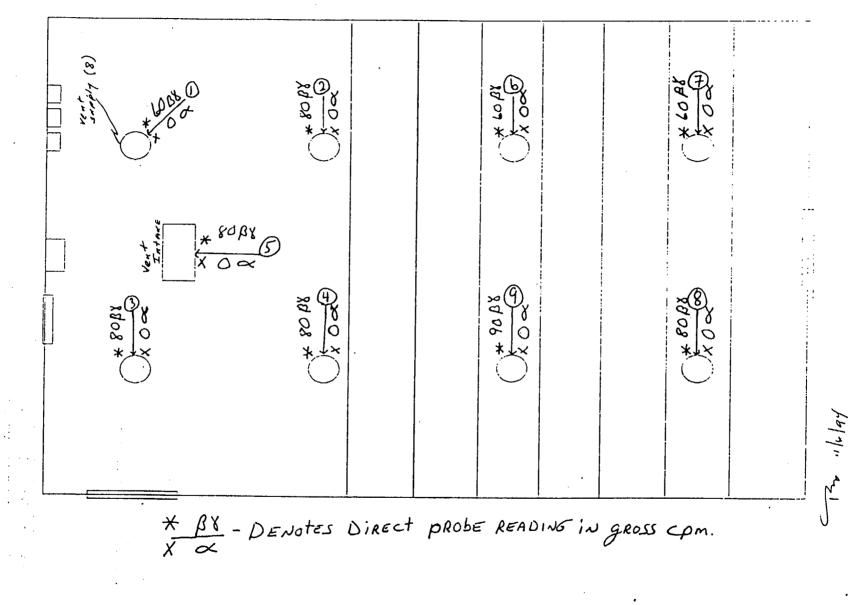
SMEAR COUNTING ANALYSIS REPORT

Date: //-3-94	A	nalysis	Performe	d by:	J. Vound	<u> </u>	
PGer112	COUNTING	SYSTEM I	DATA		in ril an		
INSTRUMENT ID: <u>99043</u> EFICIENCIES: a <u>3546</u>	COUNTING SYSTEM DATA DETECTOR ID: <u>43-10-1 09832</u> 7 βy <u>1940</u>						
		om					
PERFORMED BY: D.S. pinnerst							
Activity Report III. 2 dpm D pci							
SAMPLE ID OR DESCRIPTION							
SAMPLE ID OR DESCRIPTION	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				νιτγ βγ		
20	1	98	0.1	-3	< MOA	< MOA	
21	2	92.5	1.1	-8.5			
22	1,5	96.5	0,6	- 4.5			
23 24	1.5	94.5	0.6	-4.5			
24	1	101.5	0.1	0,5			
25	1	95	0.1	-6			
26	1.5	106.5	0.6	5.5			
27	.5	101.5	-0,4	0.5			
28	2.5	105	1.6	4			
29	0	100.5	-0.9	-0.5			
30	.5	94	-0.4	-7			
	1	106	0.1	5			
32	1.5	106.5	0.6	5.5			
33		101.5	0.1	0,5			
	1.5	101	0.6	0			
. 35		98	0.1	- 3			
36.	.5	94	-0.4	-7			
37	1	100.5	0.1	-0,5			
38	.5	107.5	-0.4	6.5			
.39	.5	93	-0.4	-8			
Remarks: <u>All SMEARS</u> < MOA							
for the war of 11/4/94							
Reviewed by Date							
ATC7-006 09/93							

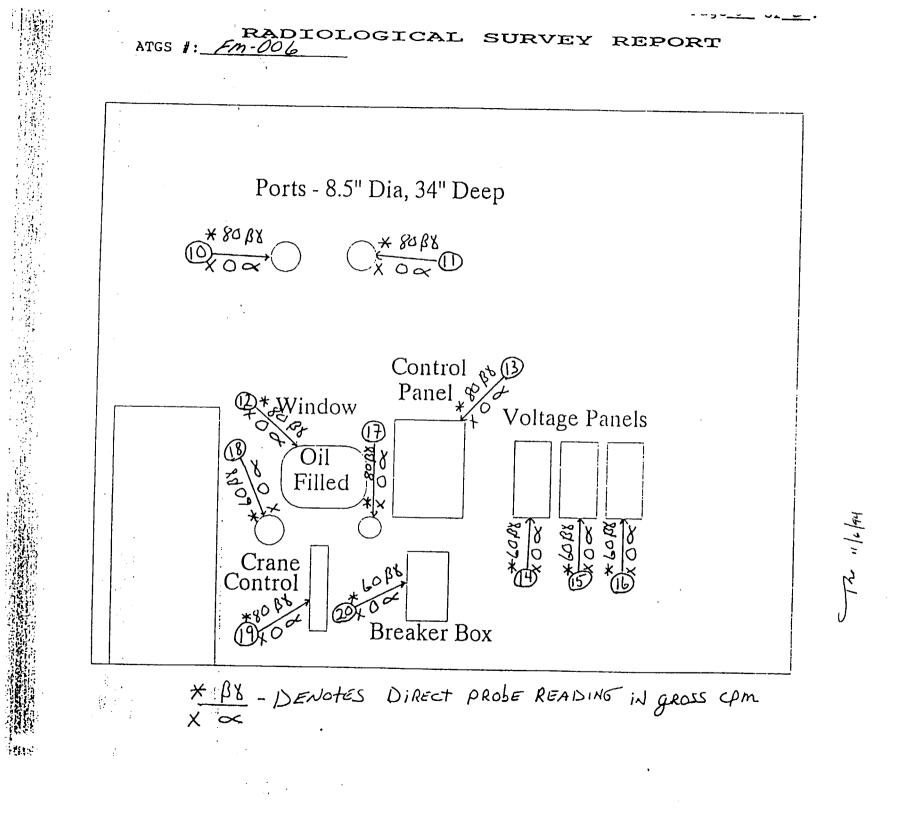
.

Page <u>4</u> of <u>6</u>.

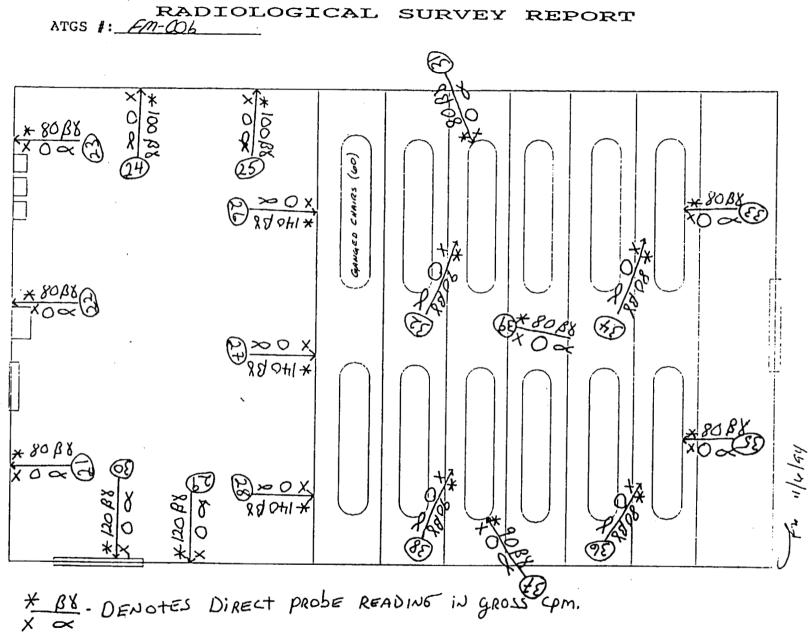




· . *



Page la of le.



Page _ of _

RADIOLOGICAL SURVEY REPORT

ATGS #: 705411947 FM 007 INSTRUMENTATION USED DATE 11/3/94 CAL. DUE DATE MODEL EFF.% BKRD TIME S/N 1400 4 15 95 3/44-9 SUCAM 100502 -10--SURVEYOR JE 3144-9 102 498 415195 LOCATION Burlding # 3192 3/43-65 97427 _ 10___ 0 00 Ζ - da 1222 REVIEWED BY IN. Rates-______R/hr_7~ Smear Locations Circléd; Dose PURPOSE OF SURVEY: Release of Matanial (ion on Idia SMEAR RESULTS # 3192. Marmint in uncontrolled are $RESULTS = DPM/100 cm^{2}$ UNLESS NOTED βγ # α @ 3'x5' metal Parels (run dividers) (9) 2' x 5' Fissiglass Panels Pieces of busles plastic light cover (4) 6' Piecos of I" gas line with values * (1) Positioning mirror 5'x 3' x 2' (A) sets of saw have less (2) SAWLonge cross mensions (1) bags of track (3) Noom divider legs * 150 cpm on leg softom, removed with Knife - reamvey, no detectable activity. Remarks: All maturas no detectable activityby direct fingh 09/93 ATG7-001

PAGE Lof 2

Ref. Survey No. 54-007

UNCONDITIONAL RELEASE OF EQUIPMENT OR ITEMS

DATE: 11-3-94

DESCRIPTION OF EQUIPMENT OR ITEMS: Wisc items See	
SURVEY PAGE 1 at 2 for stewa	
_deccription	

SURVEY EQUIPMENT:

MODEL NO .: 3	S/N: 100509	CAL.DUE DATE: 4-5-95
MODEL NO .: 3	S/N: 101495	CAL.DUE DATE: 45-95
MODEL NO .: 5	S/N: 97427	CAL.DUE DATE: - 5-95

	βγ	α		
REGULATORY RELEASE				· .
LIMITS:	<u>< 1000</u>	< 20		REMOVABLE
	< 15000	< 300		MAX FIXED
	< 5000	< 100	dpm/100 cm ²	AVERAGED

THIS IS TO CERTIFY THAT THE ABOVE DESCRIBED EQUIPMENT OR ITEMS HAS BEEN SURVEYED AND FOUND TO BE WITHIN ACCEPTABLE SURFACE CONTAMINATION LEVELS AS REQUIRED BY REG. GUIDE 1.86.

SIGNATURE / TITLE

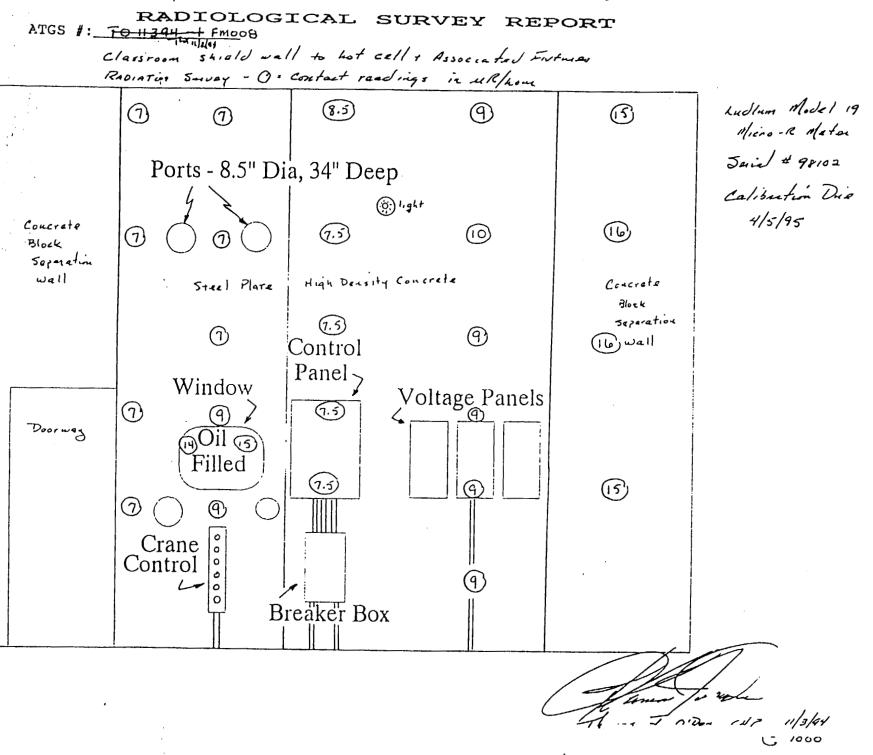
DISPOSITION OF EQUIPMENT OR ITEMS: 12000 Secon celeboot

11/4/94

. HEALTH AND SAFETY OFFICER

DATE

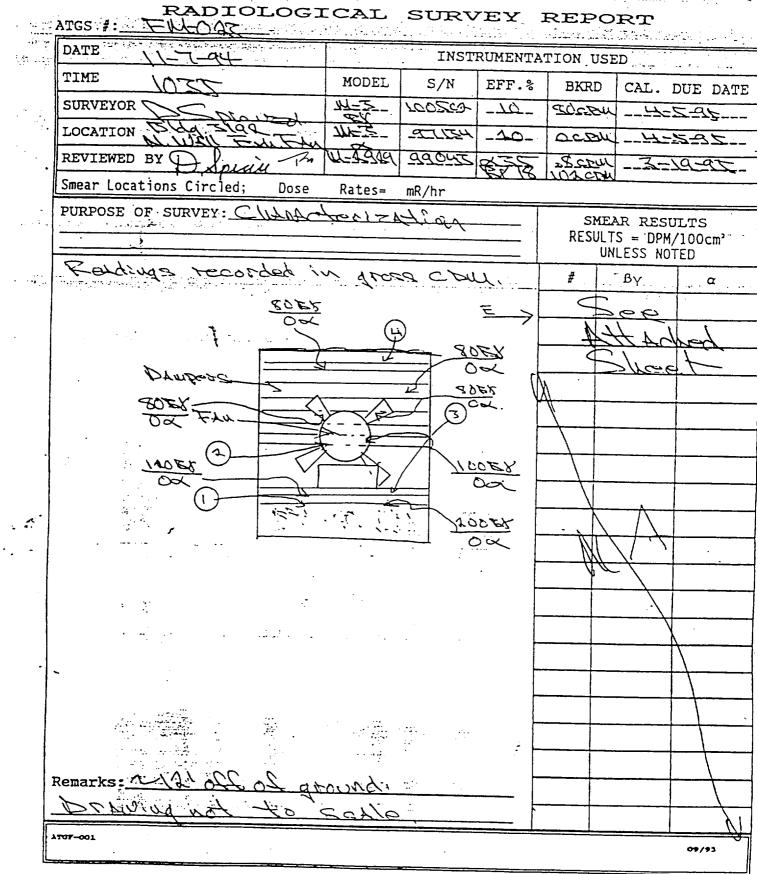
ALLIED TECHNOLOGY GROUP, INC. FORM 125



きがたち、そうないとなれた時代のとう。

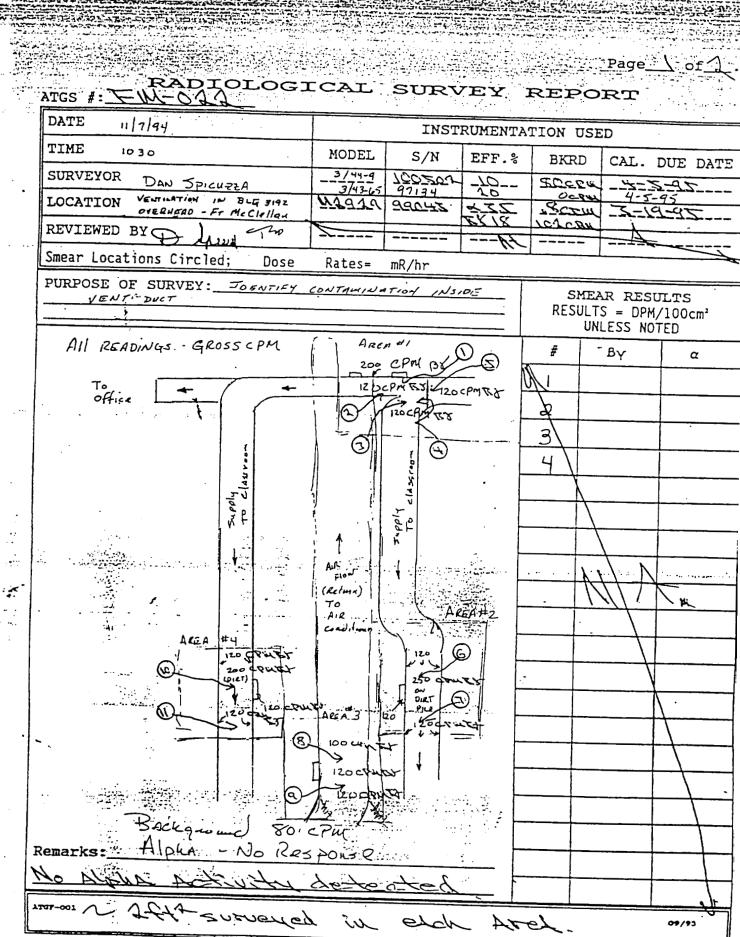
Page ____ of ___

. . .



					Page /	
SMEAF	COUNTI	NG ANALY	SIS REPO	RT	"	· <u> </u>
Date: 50 11 - 7-94		Analysis	Perform	ed by:	255	C 1
INSTRUMENT ID: 99043	COUNTING	G SYSTEM	DATA			
EFICIENCIES: a togo	BY 1851	<u>P</u>	DETECTOR	ID: Lize	-10-1	109521
PERFORMED BY:	BY 19A	ABIN				
Sample Count Time:		Activity	Report	In: Mdr	m 🗆 µC	i
a Background: cpm		β	Y Backgr	ound:\	• •	
SAMPLE ID OR DESCRIPTION	GROSS a	COUNTS BY	NET C	COUNTS BY	Act a	ivity βγ
	0	142	8	40	LUDA	222
2	<u>\</u>	111	62	व		LUD
		121	5	19		1
<u> </u>	2	118	102	16		
	2	114	1.2	12		
<u>_</u>		137	-2	35		194
<u>_</u>	2	122	1.2	20		ZMPH
&	0	108	~	6		1
4	1	115	1.3	51		†
	4	129	3.2	17		+
	2	106	1.2	Lt.		L L
					•	
				·		
					·······	
		E N	:			
	<i>V</i>					<i></i>
					• #	•
-						
marks: Jusida Cast					et tyst	1
	NA 1	Eschelic	1 20	Proux	•	
Reviewed by	Side			, Date		

.



al in a thirt a strain ann a' bhaile a s 1996 - Charles a' ann ann a thailte

					- Pa	ge Z	of	2
		Inclosed a s			AT	GS #	Æ	<u>n-02</u>
Date: 1/-7-94								
	COUNTING	Analysis	-Perform DATA	ied by:	<u> </u>	bung	<u> </u>	
INSTRUMENT ID: 99043 EFICIENCIES: a 35%	βγ /84		DETECTOR	ID: <u>43</u>	-10-1	1/04	832	7
MDA: a 12 PERFORMED BY: Tryoungy	βγ	2						
Sample Count Time: 2 min	- Star	Activity	Report	In: 8 dr				
α Background:			Y Backgr				_	
SAMPLE ID OR DESCRIPTION	GROSS a	COUNTS BY	T	COUNTS βγ		Acti a	vity	γ 3γ
and a second	· · · / · · ·	82	0.2	-20	20	TOA	1	nDA
2 -	0	117	-0.8	15				
A Contract distance in the second	14. 20 Jahr	109	0:2	1000 7 ···		et (<u>191</u>		
4		98	0.2	-4				
Series and the series of the s	· · · · · · · · · · · · · · · · · · ·	94	0.2	···-8· ·				
2	0	78	-0,8	-24				
	1.5	269	0.7	167			927	2.8
9		102	0.2	0			< 17	DA
		137	0,2	35			.19	4
	*O	10/	-0.8	-/**			21	nDA
12	0	114	-0.8	12				
12	0	118	-0.8	16			·	
14	0	-108 · 98	-0.8	le	• • •	· ·	{	
15	· · · · · · · · · · · · · · · · · · ·	116	0,2	-4 14				
16		110	-0.2	- 17:				
17.	1	113	0.2	0	· ::		-+	
	2	104	1.2	2				—
19	/	413.5	0.2	311.5	• .		1730	2.1
20 Remarks:	.5	575	-0,3	473			212	7.8
	\\	•						
Reviewed by) sel 10			, Date	t			
ATC7-006]
					09/	, ,		

.

Page / of <u>2</u>

•

D	GS #: ATE //	1-7-94		1	INST	RUMENTA		SED	
·				MODEL	S/N	1	T		
<u> </u>	URVEYOR	<u>000</u>		CM-3BX	102498	EFF.%	BKRD		DUE DAI
	OCATION	Jyour		m-19 2929	98112	NA HO TY	8 A	112 4-5-	95
	EVIEWED	Bldg. 31	72.	2929 A	-28043 99043	18BX	1024	3-19	- 45
₩		tions Circl	pully						<u></u>
				Rates-	mR/hr Tro				
	BX 1	rid mp = q	<u> </u>	ERIZAT I			RESUL	EAR RESU	/100cm ³
}		, <u> </u>	TOP	of Hot CE	11		#	JNLESS NOT	r
	* ^B X 90		.8				#	¨Вγ	α
	10	* βγ		×β: 90	5	*βδ		······	
	12	(3) 10 ž	8	טך ו	(1) (1)	90	┞───┼-	<u> </u>	 +
	$\overline{\mathcal{F}}$						<u> </u>	SEC	
						9	+-+	ATT	PCHE
		<u>#</u> ВХ [ЗК]	*BX			•	<u> </u>	SHe	E.T
	-		$\begin{pmatrix} 13k \\ 0 \\ -9 \end{pmatrix}$, ny (5)	30 60k				
7.	17	20	32	×βγ	60K		_\	<u> </u>	
		(5) (<u>[4]</u>	Ĩ (D)	*\$\$				
Litt	* B8		<u> </u>	<u>*</u> β8					
	150	ξβ	ξ	6	OB8-				
				30/	9 1	*β%			
				(1)		90	- \	\	
	12					10			•
		* вх (Б) 10	9 140	(D)	*βχ 110	3			
- -	·			10	110				
	36K (20 40	20K 130*β.	٤ 10					
	36	-2516K *BX	12	8150	-110			X	
	70	DOOR		F PO	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>				$\overline{\}$
Re	marks:	+ DE	Jotus Dire		READING	5			$\overline{)}$
			5	· ÷					
ATC	7-001		-		<u>*</u> _*		<u> </u>		09/93

`

	n an		··· •			Page 2	of J.
	SME#	AR COUNTIN	NG ANALYS	SIS REPOR	RT	ATGS #:	FM-0
	Date: 11-7-94		Analysis	Perform	ed by:		
		COUNTING	S SYSTEM	DATA		• • • •	
	INSTRUMENT ID: <u>aqov</u> EFICIENCIES: <u>a Toyo</u> MDA: <u>a Mabuu</u> PERFORMED BY: <u>Depo</u>	0	5	DETECTOR	ID: <u>\\</u>	-10-110	<u>77</u> 65297-1
	Sample Count Time:	LTTLA.	Activity	Report	In: a dr	m 🗆 uCi	
	a Background:C cpm			y Backgro			
•	SAMPLE ID OR DESCRIPTION	N GROSS	COUNTS BY	7	COUNTS BY	7	vity βγ
	<u>\</u>	1.	119	.2	117	< 11 ININ	LUDA
	-10	0	ICR	8	6	1	L
	7	1	110	1.2	1,7		
	4			-55	a	++	<u>├</u>
	C i		110	-8	8	1-1-	
~	A manual de la companya de la compan			00	<u> </u>		·
			1		+	<u> </u>	
	1		+	· ·	<u> </u>		
			+		\		
			<u> </u>				
				· · · · · · · · · · · · · · · · · · ·	·	<u> </u>	
) :T		AL					· · · · · · · · · · · · · · · · · · ·
						· .	
			<u> </u>	<u> </u>			·
; ;					\square	·	
•		_		· · · · · · · · · · · · · · · · · · ·		<u></u>	•
.:					ļ		
					ļ		
	Remarks: Frat upit		<u> </u>	· · · · · · · · · · · · · · · · · · ·			<u></u>
		D	· ···				
	Reviewed by	Spice			· Date	24	

Page ____ of ___.

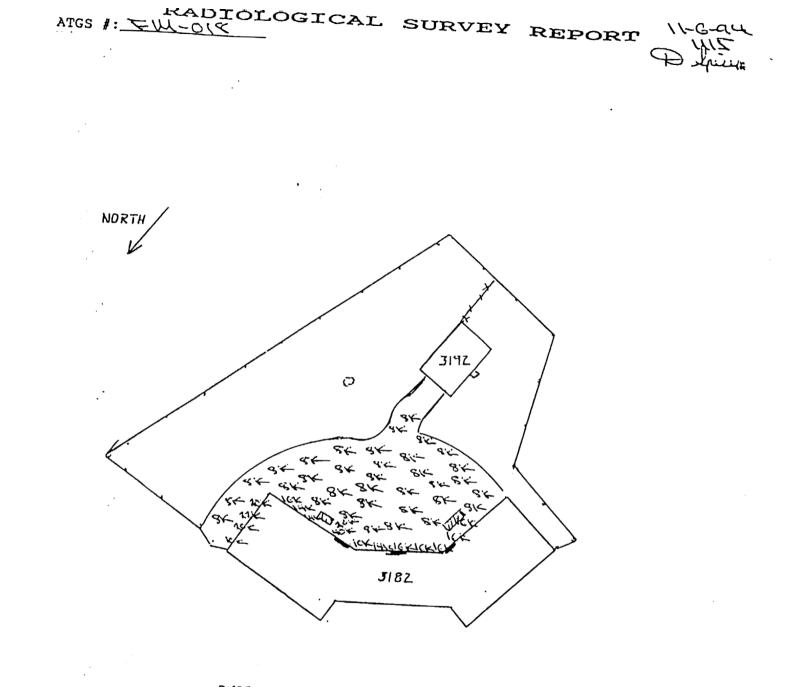
RADIOLOGICAL SURVEY REPORT

.

DATE 12-7-94		INST	RUMENTA	TION USE	D	
	MODEL	S/N	EFF.%	BKRD	CAL. D	יידע דוד
	M-5_	700204		C. Trin		
LOCATION Slog. Slog	JUL A CULA			BODIN		
REVIEWED BY	0		BX 18	101 CPU		
Smear Locations Circled; Dose	Rates=	mR/hr	- bb			
PURPOSE OF SURVEY: CURA De Blond. 5192 to Sweet #1 they	aler	Adio.		RESULT	AR RESU IS = DPM/ ILESS NOT	100cm²
COVET. Raddings Fearrack i I-terms	in dre	0982 CY	ui.		Lee Lee	hed
SOCRUTAT SOCRUTAT	5		utst .utet			
Remarks:			÷			
						1

 $Page \int of f$.

RADIOLOGICAL SURVEY REPORT DATE 11-6-94 INSTRUMENTATION USED TIME MODEL S/N EFF.% 1220 BKRD CAL. DUE DATE W-1d 28113 SURVEYOR N Ald_ 1011P 4-5-95 Diouzzt LOCATION BLdg 3193 REVIEWED BY -Actun in Smear Locations Circled; Dose Rates= mR/hr PURPOSE OF SURVEY: Dose the survey SMEAR RESULTS del deux RESULTS = DPM/100cm² UNLESS NOTED Highest Contact Relding on Surface # 'βγ α of Drums Recorded #1- 16 utille #2-18 uR/hr #3 - 14 UR/hr #14-16 UZ lho #5.16 uR/hr #G-12 MR/lun AllAN 21 - 14 H #8- 200 MR/M #29-80MElly Remarks: ·. . ATOF-001 09/93



OVER VIEW OF SITE GROUNDS

.

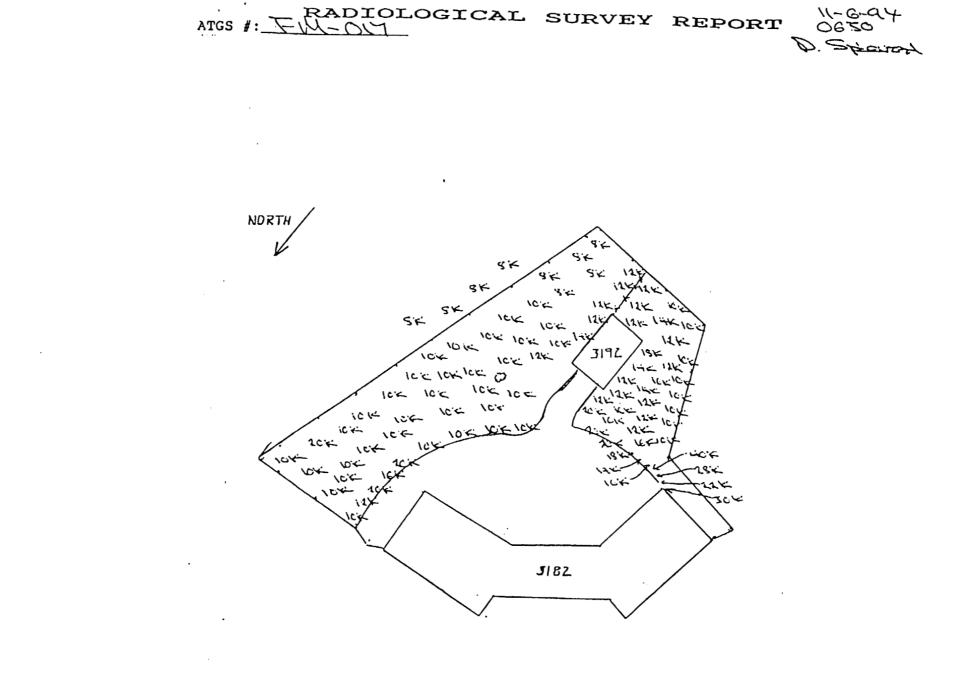
٠

1 .

•

Page of 1.

ATGS #: EM-OLY DATE INSTRUMENTATION USED 1-6-94 TIME MODEL S/N EFF.% CAL. DUE DATE BKRD ILS-SL 10-2-4 Jel-MAGI 3Karah SURVEYOR 1915 E LOCATION REVIEWED BY Smear Locations Circled; Dose Rates= mR/hr K= 1,000 cpm PURPOSE OF SURVEY: SMEAR RESULTS 6 2497A ghietan 21929 RESULTS = DPM/100cm² UNLESS NOTED Readings recorded in gross CAUX. Blog. 3182 Ols WALL blocks reading ·Вү # α 18K CTUS evente distributed in ols coutset. 1 See SURVEY MAR for reddings Readings taken at a take of ~ G" (second. (Schnning speed) with instrument on that reasonse. 1 Remarks: Reading they bet a 1711-511 200 1000 ATGF-001 09/93



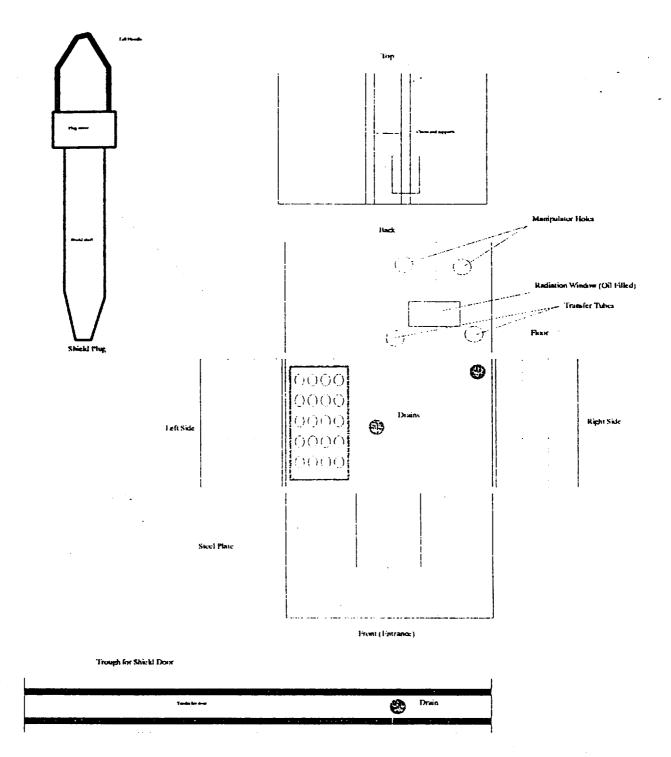
OVER VIEW OF SITE GROUNDS

Page $\int of 1$.

DATE 11-6-94 INSTRUMENTATION USED TIME MODEL S/N EFF.% BKRD CAL. DUE DATE 2730 <u>11-3</u> SURVEYOR JJACI -Like-SK-C-RUL -75-2-92 prover LOCATION 5191 ____ REVIEWED BY --- A Smear Locations Circled; Dose Rates= mR/hr K=1,000 CRM PURPOSE OF SURVEY: CLARACTORIZATION of SMEAR RESULTS a starte abietus B120 21920 $RESULTS = DPM/100cm^{3}$ UNLESS NOTED Readings recorded in gross CRWY Blog 3192 015 WALL blocks reading ·Вү # α 18K grows quealy distributed on city, ceuthet. See Survey WAR for readings. Reddings there at a rate of ~ G" (second. (Souring speed) with instrument on that response 4 ÷. . • Remarks: Terding LALER N 44 4"-G" all a ground AT07-001 09/93

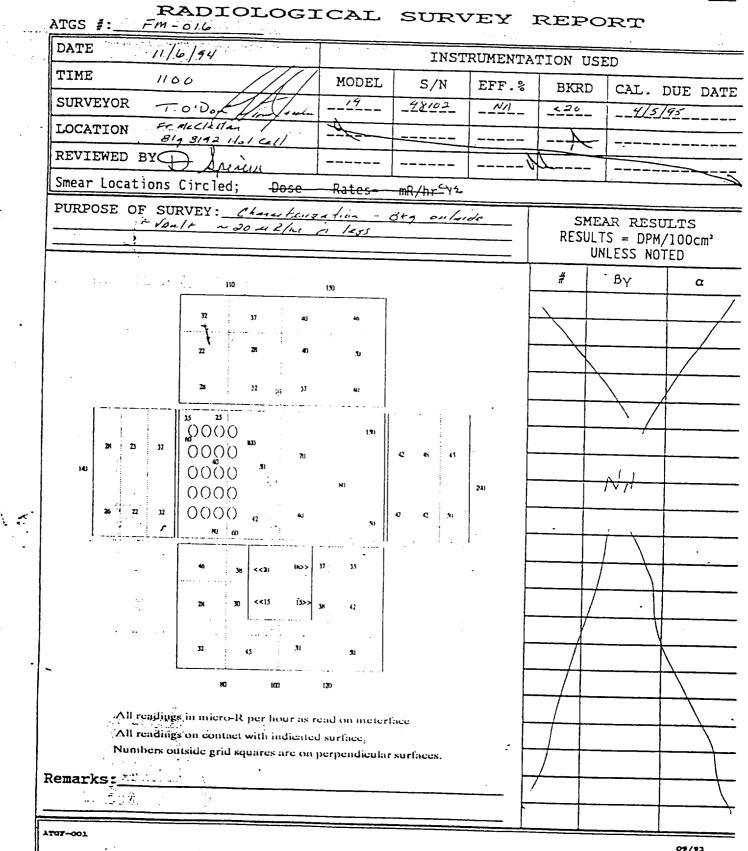
Hot Cell Diagram

Fort McClellan - Bldg 3192



ur Artgeleinen

Page / of / .



09/93

Page <u>3</u> of <u>3</u>. ATGS #: <u>Fm-015</u>

SMEAR COUNTING ANALYSIS REPORT

ate: 11-5-94	P	nalysis	Performe	d by:	J. 46400	i -
INSTRUMENT ID: 99043 EFICIENCIES: a 31.90 MDA: a 12.90	COUNTING $\beta Y / 8 %$ $\beta Y / 8 %$	SYSTEM E	DATA DETECTOR		\mathcal{U}	
ample Count Time: 2 min			Report I	n: 🗖 dpi	m 🗆 µCi	
a Background: Cpm		βγ	Backgro	und:	99ср	m
SAMPLE ID OR DESCRIPTION	GROSS a	COUNTS BY	NET CO a	ΟυΝΤS βγ	Acti a	vity βγ
1-10 "MANIPULATOR Pieces"	.2	95.5	1.1	-3.5	< MOA	< MOA
- PIECES		99.5	0,1	.5		
	1.5	97.5	0.6	-1.5		
····	.5	98.5	-0,4	-0.5		
<u>`</u>	/	104.5	0,1	5.5		
· · · · · · · · · · · · · · · · · · ·	.5	93	-0.4	-6		
	. 5	105.5	-0,4	6.5		
	0	100	0.4	1		
	2	49.5	1.1	.5		
	.5	97	-0.4	-2		
				I		
		A	· ·			
	<u>`</u>	\sim				
·						·
·····					L	
						<u> </u>
emarks: # Items FREE	RELEASE	Equip	ment			
Reviewed by	le re	har		r1/6/44 、Date	_	
<u>\TGP-006</u>		· ·			09/93	. <u></u>

Paye 2 of 3

Ref. Survey No. FM-015

UNCONDITIONAL RELEASE OF EQUIPMENT OR ITEMS

DATE: 11-5-94

DESCRIPTION OF EQUIPMENT OR ITEMS: MANIPULATOR PIECES

SURVEY EQUIPMENT:

MODEL NO .: M-3 BX	S/N:	102498	CAL.DUE DATE:	4-5-95
MODEL NO .: M-3 ~	S/N:	97134	CAL.DUE DATE:	4-5-95
MODEL NO .: 2929	S/N:	99043	CAL DUE DATE:	3-19-95

	βγ	α	
REGULATORY RELEASE			·-
LIMITS:	< 1000	< 20	dpm/100 cm ² REMOVABLE
	< 15000	< 300	dpm/100 cm ² MAX FIXED
	< 5000	< 100	dpm/100 cm ² AVERAGED

THIS IS TO CERTIFY THAT THE ABOVE DESCRIBED EQUIPMENT OR ITEMS HAS BEEN SURVEYED AND FOUND TO BE WITHIN ACCEPTABLE SURFACE CONTAMINATION LEVELS AS REQUIRED BY REG. GUIDE 1.86.

<u>Armis Guing / Sn. Health Physics</u> SIGNATURE / THEE DISPOSITION OF EQUIPMENT OR ITEMS: <u>FREE RELEASE Equipment</u>

HEALTH AND SAFETY OFFICER

DATE

Page_/_ of____.

DATE 11-5-95		INST	RUMENTA	FION USE	D	
TIME 1330	MODEL	S/N	EFF.%	BKRD		UE DAT
SURVEYOR J. Yound	<u>M-3 B</u> M-3 &	102498 47134			-4-5-	
LOCATION Bldg. 31924	<u>2929</u> 2929	- <u>99043</u> 99043	18_R8 .360	9 9 cp*	-3-12- 3-14-	95 95
REVIEWED BY		A	A			A
Smear Locations Circled; Dose	Rates=	mR/hr				
PURPOSE OF SURVEY: FREE	RELEASE	Equipme		RESULT	AR RESU S = DPM/ ILESS NOT	'100cm'
"MANIPULATOR Equ.	'pment	SURVE	yey"	#	. ВА	α
1					SEE ATTA	CHE
			-		SHE	
			•			
	•	•			<u>\</u>	
•						
Deserves All constants 1 man			-			
Remarks: <u>All SMEARS L'MDA</u> <u>Activity by dinuct</u>	Frisk B	iecinsii Kis				+
						1

Page 1 of 1. ATGS #: FILL-C.14

SMEAR COUNTING ANALYSIS REPORT

te: 11-5-94	P	nalysis	Performe	ed by:	Spice	
NSTRUMENT ID: <u>AQAHZ</u> FICIENCIES: <u>a Scale</u> MDA: <u>a AApu</u> PERFORMED BY: <u>Spice</u>	COUNTING <u>βγ \Ser</u> z βγ <u>\Ser</u> λ	<u>کس</u> 	ETECTOR	ID: <u>43</u> -		
umple Count Time:	. P	ctivity				
a Background: cpm		βγ	/ Backgro	ound:	d ch	m
SAMPLE ID OR DESCRIPTION	GROSS	COUNTS βγ	NET C a	ounts βγ	Act: a	ivity βγ
	0	102	- <u>,</u> q	3	<u>LUYDA</u>	LUDA
-12		111		12		
7		115	-	1E		
· · · · · ·	1	101	1-1	2		
5 1	2	116	1:	17		
6	0	108	-,9	q		
7	2	105	1.1	6		J
	2	118	1	119		661
9		114		15		- KUDA
10	2	110	1.1			
	0	92	9			
12		29	.\	-4.		
13		103	<u> </u>	4		
/4		99	6	0	<u> </u>	<u></u>
15	0	104	<u> </u>	5	<u> </u>	
16	0	89	1a	-10	<u> </u>	<u></u>
T	3	943	2.1	844	<u> </u>	46.88
		- <u>/</u>				
marks: <u>Suredr #17</u>	taken	hieul AT		to aik	ening	<u> </u>
Reviewed by	Opine			, Date	4	
					09/93	

Page $\int of A$.

DATE 11-14-94		INSI	RUMENTA	TION USE	ED	
TIME 100	MODEL	S/N	EFF.%	BKRD	CAL. DUE D	AT
SURVEYOR D.Smc V-	XZ-LAL AT	<u>27427</u> 102492	-10-	MACIO MARIO	-4-5-95	
LOCATION IK Work C	ell Wistr	10050	_del_	777E-		5-
REVIEWED BY	NI A GA G	990-33	2-36. 18 18	agery	-2-19-0	2
Smear Locations Circled;	Dose Rates=	mR/hr ∖	$\leftarrow 1.0$		PUL	
PURPOSE OF SURVEY: <u>()</u> Shield Huge In	Ander erization			SME. RESULT	AR RESULTS S = DPM/100cr ILESS NOTED	n²
Shield plug ava	bers coor	Stores	70		"βγ α	
Source well + # AT6S - F.M-C	iubes. Se	e Sur	UNO L			
# Fres-F.MC	. ZIC	Dire	at t	N N		
# AT65 - F.MC Shield Plug #	Sweett	Gross CDN1-1	Grices		the feet	<u> </u>
BZ			200		neet	
6	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		200			
	3		100			
8	4		50			
٩	2		100	<u>\</u>		
10	Ģ		300		<u>\</u>	
	7		120			
12	ξ.		200		A	
13	.9		100	V	$\langle \rangle \rangle$	
14			100		- \	
21	\\		200			
16	12		120			
. 17	13		100			
18	14		500			
19	12	01	.00			
E 10	/6	0 5	:00:			+
Remarks: Sunder #17	+Alera ine	ile + 1	the			
) COTURE OF					
ATUF-001 SWLOUTS COU						
Cildle Cal	11 in Lota	01	0-154	3 6 0 L 0	Dottagers	23

.

Page 2 of 2. ATGS #: FW-OR

- -

•

٠

SMEAR COUNTING ANALYSIS REPORT

INSTRUMENT ID: <u>99047</u> EFICIENCIES: a <u>3646</u>	COUNTING	D		ID: <u>43</u> -	-10-1/0	98:31-
MDA: PERFORMED BY: D.S. D. S.	BY1893	PH				
ample Count Time: Auto		ctivity	Report	In: 🕸 dpi	m 🗆 µC	i
a Background: cpm	•			ound: A		pm
SAMPLE ID OR DESCRIPTION	GROSS	. <u> </u>		OUNTS	T	ivity
	۵	βγ	a	βγ	a	βγ
Ils Source Wells #1	Tal	112	.6	13	LUDA	LUS
#1	0	136	- <u>q</u>	37		20:
7#		116		T		CWD
#4		96		-3		
#5	0	168	- 9	69		-38-
46	0	91	- <u>q</u>	-8		245
T#-		120	0	21		
#8	5	116	21	17		
#9	Ó	120	- <u>q</u>	21		
4+10		165	6	66		35
	1	110	101			ZW
#12	4	2344	3el	2245		12,44
21#		105	0	6		LOU
HIL	1.5	107	6	68		77
7/#	3	109	Jal	10	<u> </u>	
#16	0	121	Q	22		
F1H	2	108	101	9	<u> </u>	
#18		121	6	122		
#19	0	122	<u> </u>	123		
#10	1	115	101	116	L V	<u></u>
Remarks: TIS Source	Well	Tub	69	<u></u>		

ATCF-006

09/93

Page _____ of <____

RADIOLOGI A #: <u>F-W-013</u>	CAL	SURV	EY	REPO	RT	
DATE 11-4-94		INSTI	RUMENTA	TION USE	ED	
TIME 1700	MODEL	S/N	EFF.%	BKRD	CAL. D	UE DATE
SURVEYOR	W-30X	1-	10-	DEPA		25
LOCATION I'S Het Cell	W	JOPER	-114-	124	-17-2	-95
REVIEWED BY Specific Moke	1-2020	99072	x 30.41			-25-
Smear Locations Circled; Dose	Rates=	mR/hr	$\vec{x} = 1$	0000	pul	
PURPOSE OF SURVEY: CULARC		Atian Dell		RESULT	AR RESU IS = DPM/ NLESS NOT	'100cm'
1 ·				#	ßγ	α
C X Q X	TOK () the	-	Ś	.e Q	
B A G (2)		LOJ E	<u>-</u>	A	HA	ched
- LOX 90X D LOX	+ LDX		DK	U-AN	Veb.	<u> </u>
() () () () () () () () () ()	(\mathbf{s})	194	\sim			
A VILY	Dellox	(\mathbf{x})	(4)			
a a a a a a a a a a a a a a a a a a a	(well) (11× 3)			
-10x - 10x - 10x	(3)		105	$ \vdash $		
	(3) (3)	ing P	2015	-11	AL	
13K	X			- P	-11-	<u> </u>
tock tock Botton - Denotes W-3/444-1 Botton botton in CPA	o resd	ing as A				
botton in CPA	1 Cgeca	e com).				
Swars talaca ~ C	" I/S	hole	A .			\
1					·····	\
					<u> </u>	
Remarks: Shield plug						\downarrow
-iowolated See						
Holes 2411 in	on V doku	-I-qu	いん	41 d.		09/93
Holes #1 throw the a	- 8' de	EP.	C	#24	NED A	=205

i

.

Page_<u>10</u> of<u>10</u>. ATGS #:<u>*F17-012*</u>

SMEAR COUNTING ANALYSIS REPORT

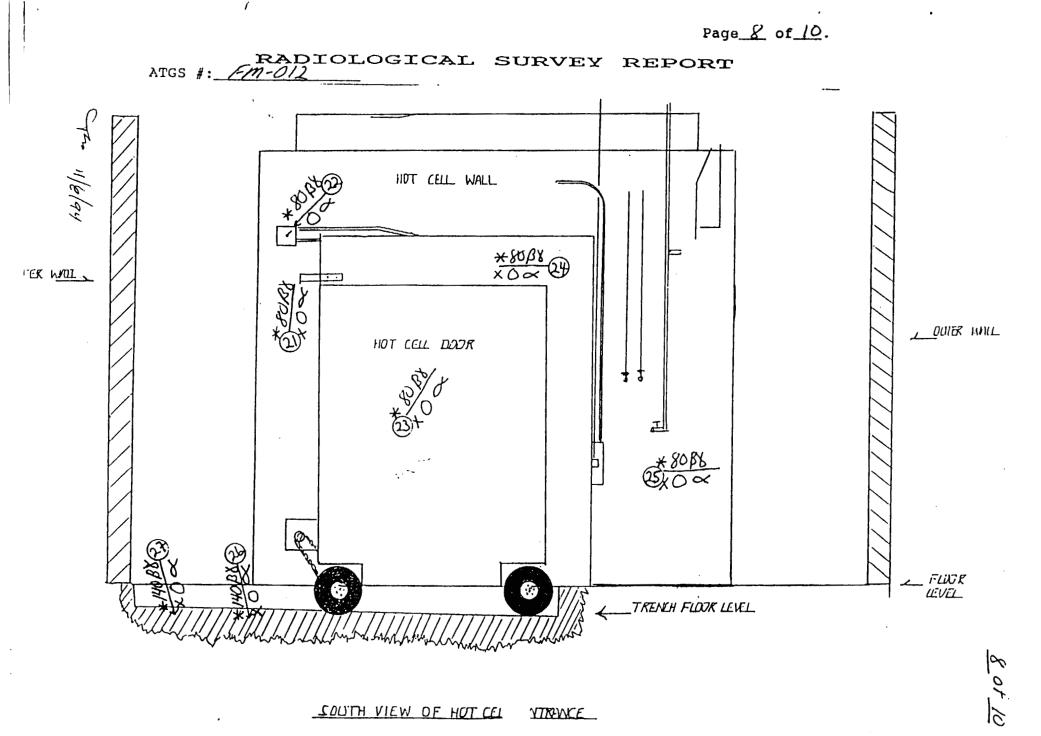
. .

Date: 11-4-94	A	nalysis	Performe	d by:	J. Youn	<u>e</u>
INSTRUMENT ID: <u>99043</u> EFICIENCIES: a 3570	COUNTING βγ <u>/846</u> βγ <u>/876</u>	SYSTEM I D			0	
Sample Count Time: <u>2 min</u>	A	ctivity	Report I	n: 🖻 dpr	n 🗆 µCi	
a Background;		βγ	Backgro	und:	96 cp	m
SAMPLE ID OR DESCRIPTION	GROSS (a	COUNTS BY	NET CO a	DUNTS βγ	Acti a	ivity βγ
20	0.5	97	-0.3	1	< MOA	LMOA
21	0	91.5	-0.8	-4.5		
22	2.5	100	1.7	4		
23	1.5	102.5	0.7	6.5		
21 22 23 24		91.5	0.2	-4.5		
25	0.5	106	-0.3	10		
6	0.5	105	-0.3	9		
27		100.5	0.2	4.5		
28	1.5	103.5	0.7	7.5		
29	,5	99.5	-0,3	3.5		
30	1.5	104.5	0,7	8.5		
31	1.5	102.5	0.7	6.5		
32	1.5	103.5	0.7	7.5		
. 33	1	106	0.2	10		
34	0	97	-0.8	1		
35	.5	99.5	-0,3	3.5		
					ļ	
		N	<u>`</u>			
		<u></u>				
Remarks: <u>All STREARS</u>	mon	1				
Reviewed by	for last	2		6/14 Date	2	
ATG7-006					09/93	

Page <u>9</u> of <u>10</u>. ATGS #: <u>FM-01</u>2

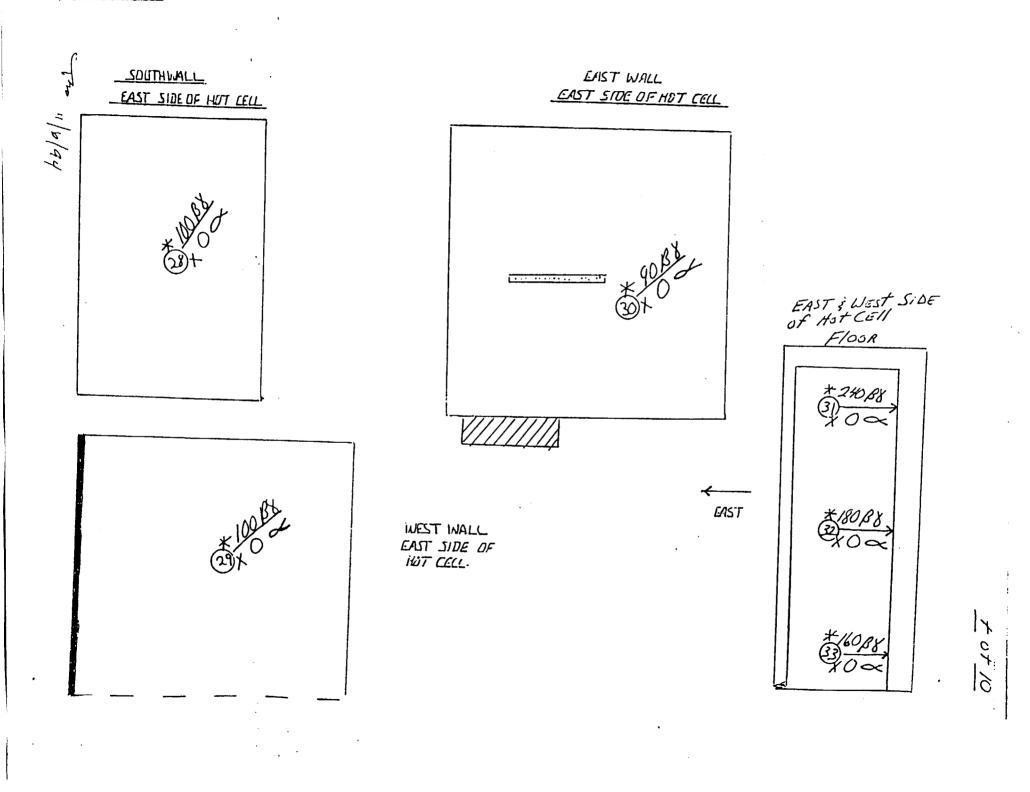
SMEAR COUNTING ANALYSIS REPORT

e: 11-4-94 Analysis Performed by: J. Yours									
INSTRUMENT ID: <u>22047</u> EFICIENCIES: a <u>3594</u>	35ard BY 18arde 12 dam BY 18-7 dam								
Sample Count Time:	A	ctivity	Report I	n: &dp	n 🗆 µCi				
α Background:&_ cpm	<u>βγ Background: <u>Q</u> cpm</u>								
SAMPLE ID OR DESCRIPTION	GROSS (a	COUNTS BY	NET CO a	DUNTS βy	Acti α	vity BY			
1	. 0	107	-0.8	11	< mo A	< mc			
2	1	104.5	0.2	8.5	< mDA	< mo			
3	2	96	1.2	0					
4	/	103.5	0.2	7.5					
5	1	.97	0.2	1					
4	.5	83.5	-0.3	-12.5					
7	0	98.5	-0.8	2.5	$\left[\right]$				
8	.5	100.5	-0.3	4.5					
9	.5	97.5	-0.3	1.5					
10	.5	105	-0.3	9					
11	0	102.5	-0.8	6.5					
12	1	92	0.2	-4					
13	1.5	100,5	0.7	4.5					
14	0,5	106	-0,3	10					
15	0	99.5	-0.8	3.5					
16	0.5	103.5	-0.3	7.5					
and for the second s	<u> </u> .	88.5	0,2	-7,5		• · · .			
18	0,5	85.5	-0.3	-10.5					
19	1.5	90,5	0.7	- 5.5					
Remarks: <u>All Smears</u>	MDA								
Reviewe	d by	<u> </u>		L/GY Date	 2	,			
ATGF-006				<u>,</u>	09/93				

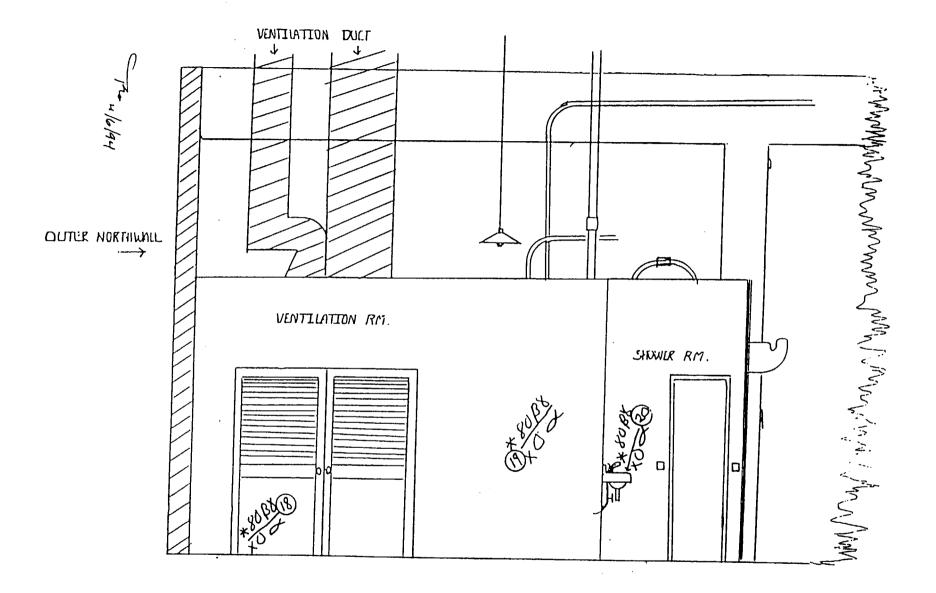


165 #: Fm-012

RAMOLOGICAL SURVEY REPORT



. .

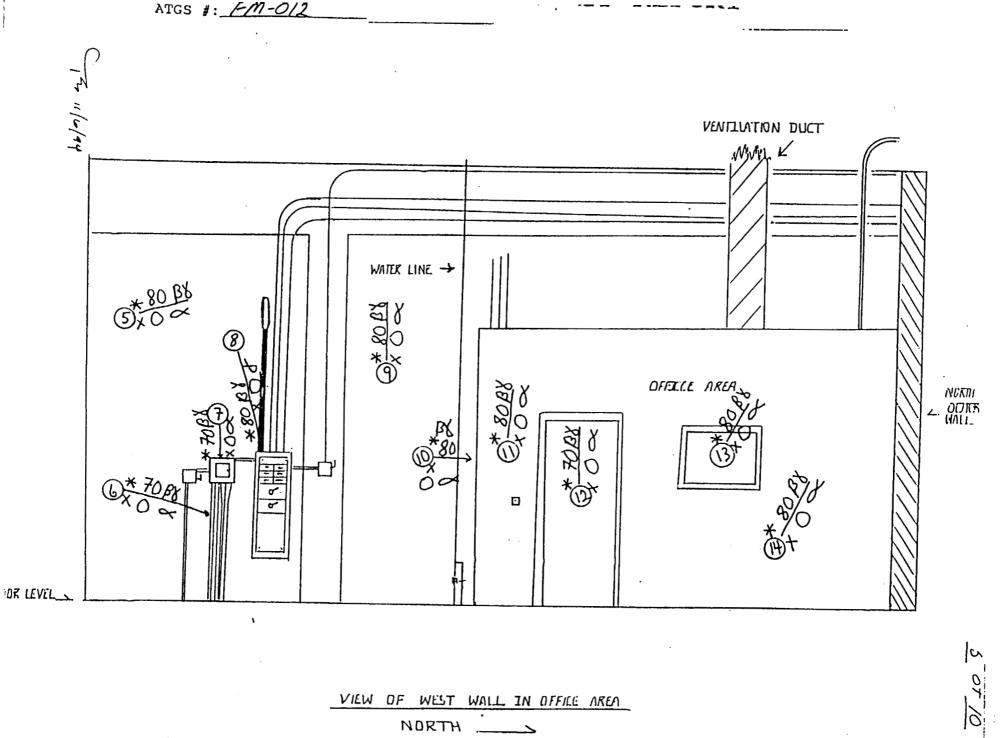


EAST WALL OF VENTILALTION ROOM AND SHOWER

NORTH

10 15

. .

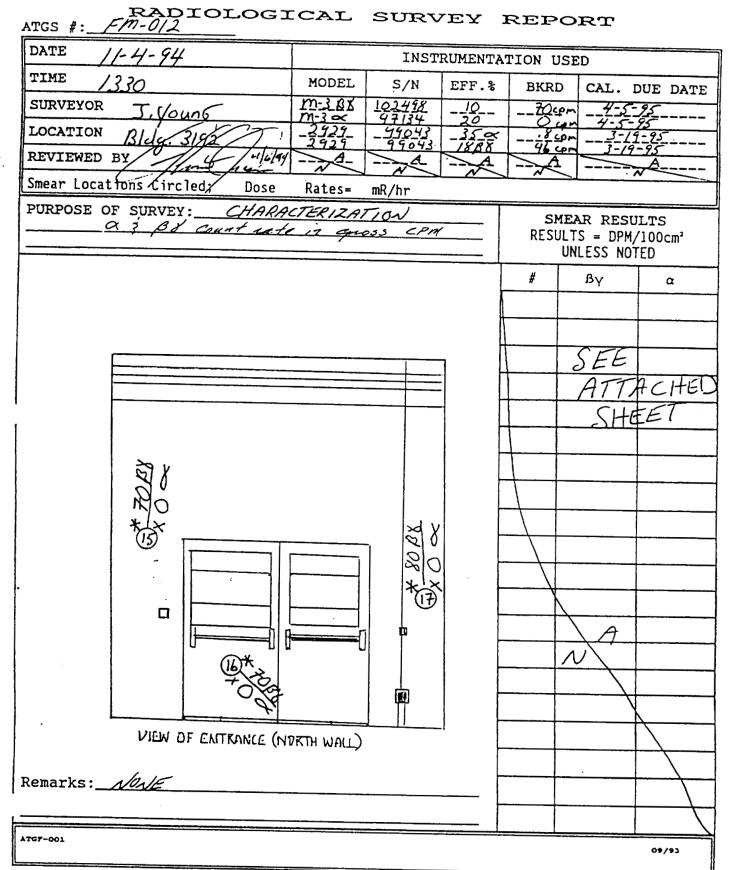


Page_____ of____.

1

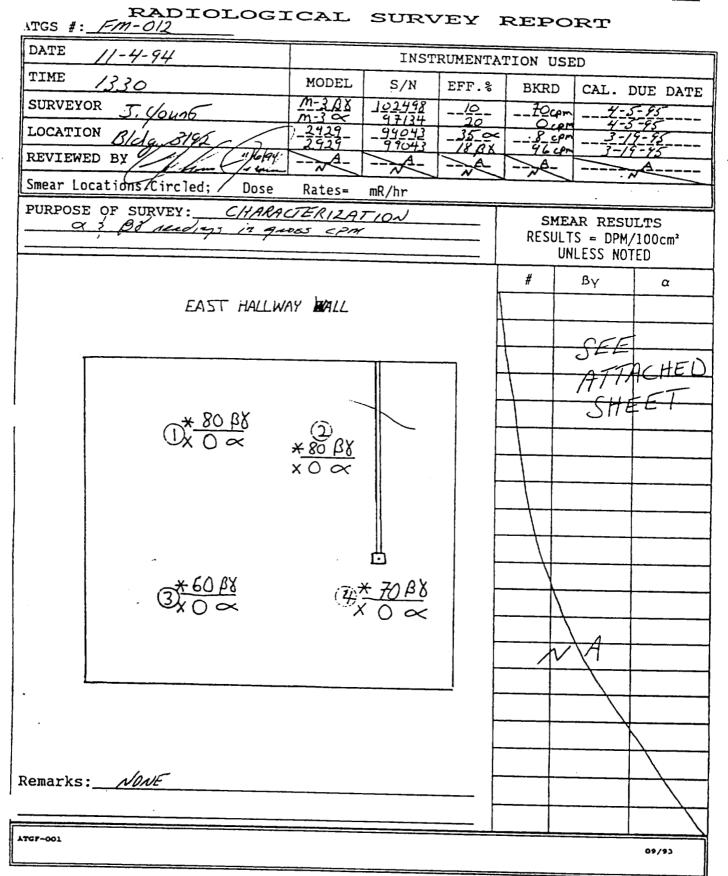
DATE /1-4-94	INSTRUMENTATION USED					
TIME 1330	MODEL	S/N	EFF.%	BKRD		UE DATE
SURVEYOR J. Young	m-3 ps	102498 47134	10-	ZOup		- 95
LOCATION Bldg. 3192	2929	<u>- 4 9043</u> 9 9043	-35 ~ 188X	8 cp 96 cs	~ <u>3-19</u>	- 75
REVIEWED BY						A
Smear Locations Circled; Dose	Rates=	mR/hr	· · · · · · · · · · · · · · · · · · ·		<u> </u>	
PURPOSE OF SURVEY: <u>CHARA</u> α 7 Bl Academys in ge	CTERIZAT 2055 C.2M			RESUL	EAR RESU TS = DPM/ INLESS NOT	100cm²
SHOWER RM.	WALL NOR		\rightarrow	#	ßү	α
				<u>}</u>		
<u>гт</u>	-			1		
× 80 B8 X O ~ 37]		<u> </u>		
XO~ of		1				
		-				
	BX 80 B8	-				
		~				
-				Y		
					\;	
					A	
					$ \rightarrow $	
						L
						\backslash
Remarks: NONE						
ATG7-001				<u></u>		09/93

Page <u>}</u> of <u>/0</u>.



í

Page 2 of 10.



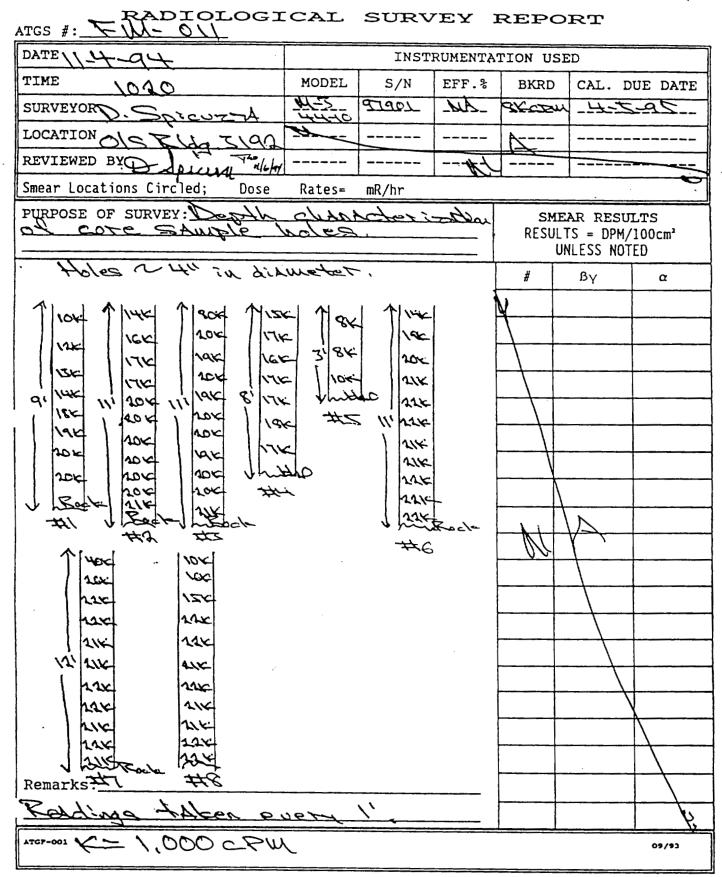
i

Page<u>/</u> of<u>/0</u>.

ATGS #: FM-012	CAL	SURV	EX	REPC	DRT	
DATE 11-4-94		INST	RUMENTA	TION US	ED	
TIME /330	MODEL	S/N	EFF.%	BKRD	CAL.	DUE DATE
SURVEYOR J. (loung)	M-3AX m-3 ~	102498 47134	-10 -20	70cp		5-75
LOCATION BILL 3192	2929_	_99043 _99043	35 ~ 18 BX	- <u>-8</u> .cor 96 co	3-	19-25
REVIEWED BY						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Smear Locations Circled; Dose	Rates=	mR/hr				-
PURPOSE OF SURVEY: <u>CHARACT</u>	TERIZATI	0		RESUL	CAR RES TS = DPI NLESS NO	4/100cm³
THIS IS A SURVEY OF	f the	WEst	WAll	#	βγ	α
IN OFFICE AREA; SOL	th WAll	of Hor	+ CE[]	<u>}</u>		
ENTRANCE; EAST WALL o	of VENT	tilAtion	And		CEL	
SHOWER; North WALL O	F FRON	I DOOR	ENTRAKE		SEI	ACHED
EAST SIDE of Hot Co	Ell Wr	7/1 , <i>F</i> /00	OR ; MO		- (f .	EET
TRENCH					<u> </u>	
* - NENTER Night P	EANING	ον /	- am)			
X - DENOTES Direct Re	-	4				
X- DENOTES DIRECT 1	READIN	$2 \propto 1$				
					\	
					\rightarrow	
					\rightarrow	
					\	
Remarks: NONE					<u> </u>	+
						+
ATGF-001						09/93

;

Page \checkmark of \checkmark .



i

PAGE Joh 3

Ref. Survey North- Olo

UNCONDITIONAL RELEASE OF EQUIPMENT OR ITEMS

DATE: 11-4-94

DESCRIPTION OF EQUIPMENT OR ITEMS: 3 drill sections 1 hollow Auger Sections

SURVEY EQUIPMENT:

MODEL NO .: 3	S/N: 101498	CAL DUE DATE: 4-5-95
MODEL NO .: -	S/N: 27417	CALDUE DATE: 4-5-95
MODEL NO .: 1 9129	SIN: QQOYES	CALDUE DATE: 4-5-90

	βγ	α	•.
REGULATORY RELEASE			· · · ·
LIMITS:	<u>< 1000</u>	< 20	dpm/100 cm ² REMOVABLE
	< 15000	< 300	dpm/100 cm ² MAX FIXED
	< 5000	< 100	dpm/100 cm ² AVERAGED

THIS IS TO CERTIFY THAT THE ABOVE DESCRIBED EQUIPMENT OR ITEMS HAS BEEN SURVEYED AND FOUND TO BE WITHIN ACCEPTABLE SURFACE CONTAMINATION LEVELS AS REQUIRED BY REG. GUIDE 1.86.

HDCSIGNATURE / TITLE

DISPOSITION OF EQUIPMENT OR ITEMS: the polased

HEALTH AND SAFETY OFFICER

DATE

ALLIED TECHNOLOGY GROUP, INC. FORM 125

Page 1 of 3.

ATGS #: 5000

SMEAR COUNTING ANALYSIS REPORT

. .

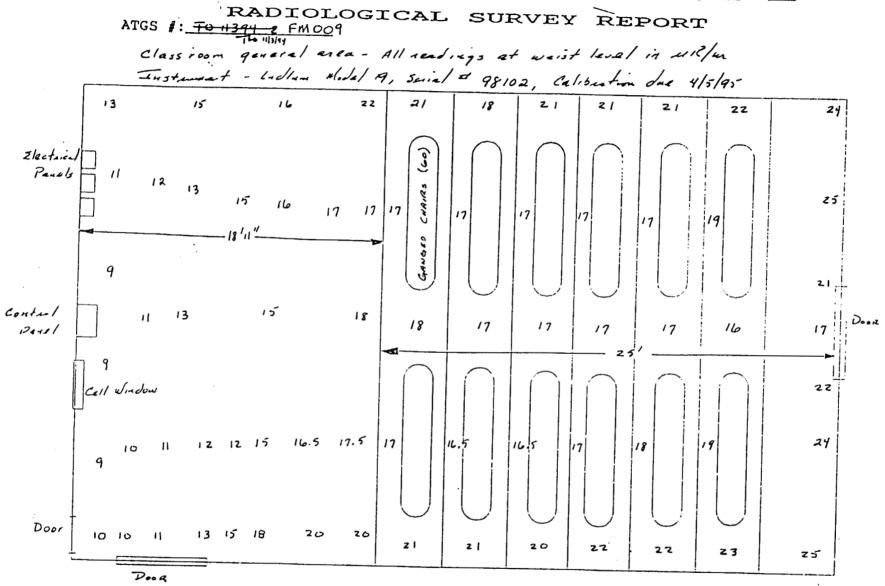
·.

ate: 11-24-94	A	nalysis	Performe	ed by:	Splan	1
INSTRUMENT ID: <u>99043</u> EFICIENCIES: a <u>3596</u> MDA: <u>a122</u> PERFORMED BY: <u>D. Spicure</u>	COUNTING BY 804 BY 87	***	DATA ETECTOR	1D: <u>09</u>	8317	
ample Count Time:	<u>~~</u>	Ctivity	Papart I	n: No do	m 🗆 µCi	
						·
a Background:& cpm		βγ	Backgro	ound:	CPI CPI	n
SAMPLE ID OR DESCRIPTION	GROSS a	COUNTS βγ	NET CO a	ounts βy	Acti a	vity βY
Drell Sections.	. \	98	2	2	LULDA	LOUDA
	Ô	100	- %	14		
	1	101	.2	М		
Hollow Auger Section	0	100	8	4		
l		99		3		
Hollow Stupto		102	2	6		
Hollow Samples M Sections		103	1.2	7	7	b
					1	
			}		1	
		1	}			
		N				
	V	14			1	
e a sur a						,
						N
Remarks: Thomas tos	e ve	10200	·	······································		
	d by		· 11/1/11	Date	964	· · · · · · ·
ATCF-006					09/93	

Page $_$ of $_$.

DATE INSTRUMENTATION USED 11-17-01 TIME MODEL S/N EFF.% BKRD CAL. DUE DATE W-355 W-30 101498 SOCTU <u>-76</u>-LF - Z-01 SURVEYOR NOUTT Dary W7375 29045 ACR22 LOCATION 7101 POR 010 ACRW REVIEWED BYC 11/4 Smear Locations Circled; Dose Rates= mR/hr PURPOSE OF SURVEY: 2, askela Cope Engineering Co drilling Covinnent. SMEAR RESULTS $RESULTS = DPM/100cm^{2}$ UNLESS NOTED Items Surveyed. # Bγ α 3~5' drill sections 00 225' hollow Auger sections. 3 ~4' hollow stuples sections All items 100000 direct probe surveyed. All items were EBLod. BKd. Remarks: Free petersed Hevis ATG7-001 09/93

Page_1 of_1.



Thomas I. O'Don, CHP 11/3/94

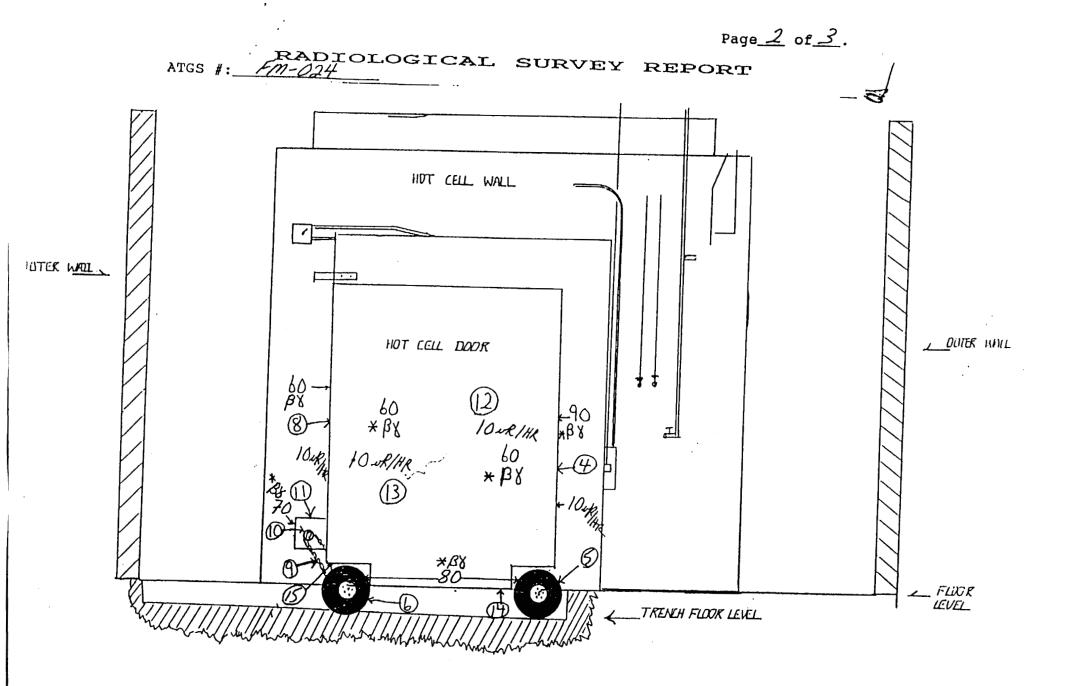
20 : ZO

					_Page	of
n 1997) - Angeler Alexandrik, and an				and a second	ATGS #	Em-c
		IG ANALYS	IS REPOR	T		
Date: 11- 1- 944		Analysis	Perform	ed by		1.7.700
		SYSTEM				
INSTRUMENT ID: <u>99047</u> EFICIENCIES: a <u>100</u>	BY VSar	I	DETECTOR	ID: <u>45</u>	-10-11	299751
MDA: a Marin		den				
Sample Count Time:	rend	Activity	Peport	In · N dn	m 🗆 µCi	·
a Background: cpm			/ Backgro			
			T		<u> </u>	
SAMPLE ID OR DESCRIPTION	GRUSS a	COUNTS BY		OUNTS BY	α	vity βγ
1:	3	108	1.1	6	LULDY	T
-10	~	au	- 8	-7	1 1	$ - u_{\lambda} v_{\lambda}$
		1100		te	<u> </u>	7.00
					<u> </u>	308
N .	<u>├≻</u>	+-\\b	Ea l		<u>\</u>	Lill
- X	4 	<u> </u>				
		<u></u>			}	
1		·		 	 	·
<u> </u>		+				
		<u> </u>				ļ .
			· .	:		ļ
						<u> </u>
		<u>L</u>				<u> </u>
		K	\searrow	•		
		N				
		·			·	
H	·		·		$\overline{\mathbf{N}}$	† .
						1
		1 .			<u> </u>	\square
emarks: M. WALL Edu	C-AU	· · · ·			=	
	PHILIN -	a the		167-9		
Reviewed by	-p-cro-			, Date	-+	

.

÷.,

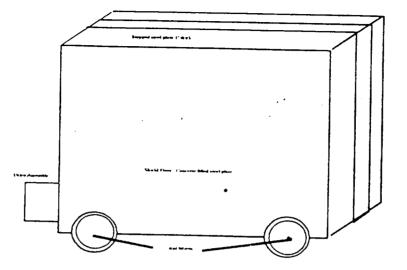
Page / of 3 RADIOLOGICAL SURVEY REPORT ATGS #:_ DATE 11-7-94 INSTRUMENTATION USED TIME 454 MODEL S/N EFF.% BKRD CAL. DUE DATE SURVEYOR I.Voun6 m 10249 10 6000 4-5-95 NA to 70 jell LOCATION. Vdq. 3197 904 <u>35 a</u> ·Sign REVIEWED BY 18BX 1024 125 A. Smear Locations Circled; Dose Rates= mR/hr PURPOSE OF SURVEY: CHARACTERIZATION Hot Cil SMEAR RESULTS (ZEAR FALE) (ENSIDE DOOR RESULTS = DPM/100cm² UNLESS NOTED # - Bv α SEE ATTACHED Hat Cell Doct SHEE7 15 N/HR :130 90 *.B8 *B8 (2)-80 *β8 Remarks: ____NONE ATOF-001 • 09/93

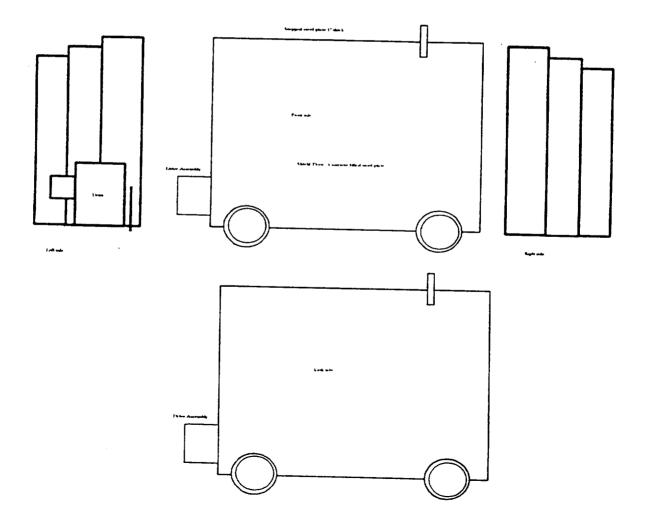


. SOUTH VIEW OF HOT CELL ENTRANCE

Hot Cell Door

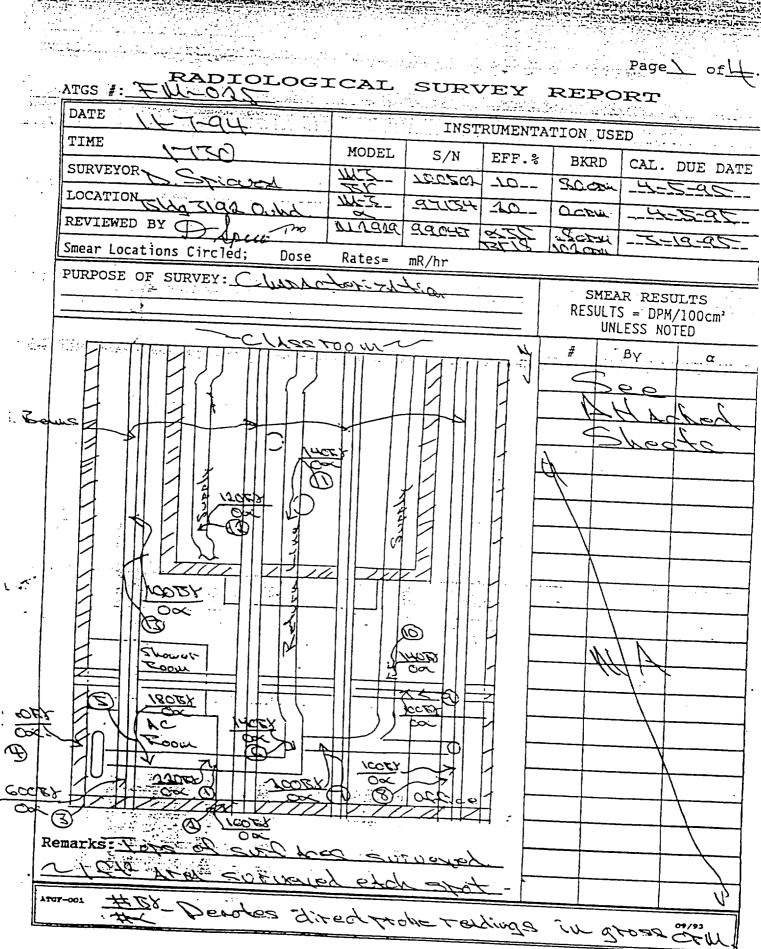
Fort McClellan - Bldg 3192

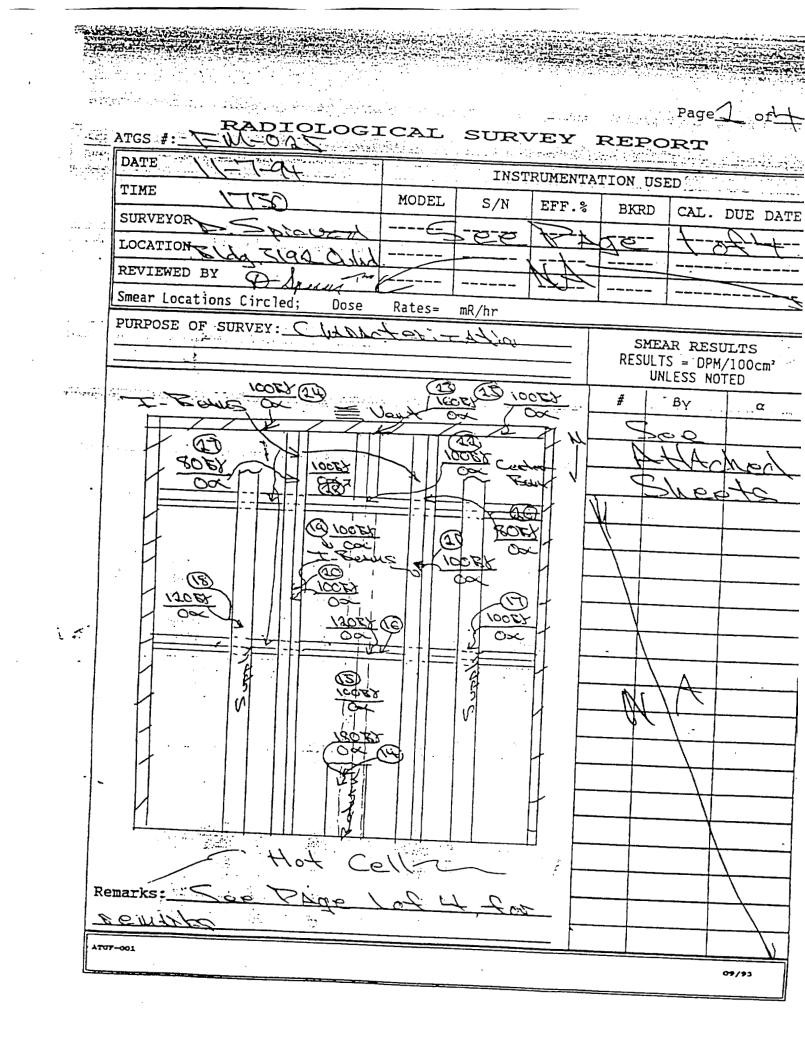




SMEA	R COUNTIN	IG ANALYS	SIS REPO		Page ATGS #	: <u></u> ;
Date: 11-7-94	•••••	Analysis		,	- 17	
INSTRUMENT ID:99043	COUNTING	SYSTEM	DATA			
EFICIENCIES: a 35%	β <u>γ_</u> /85	<i>.</i>	DETECTOR	ID: <u>4</u>	3-10-1	<u>99832</u>
MDA: PERFORMED BY: <u>J. Vaus</u> 6	βγ_/92	ared				
Sample Count Time: 2min		Activity	Report	In: 🛛 dr	m uC	
a Background:			Backgr			
SAMPLE ID OR DESCRIPTION	GROSS a	COUNTS BY	T T	CUNTS βγ	1	ivity βγ
	./	280	0.2	178	< moa	1
2	1.5	177.5	0,7	75.5	1	100
3	2	104.5	1.2	2.5		< mg
4	2.5	99.5	1.7-	-2.5		T
5	0	112,7	-0.8	10.5		++
6	0	114	-0.8	12	< MOA	< mC
<u>7</u>		88	0.2	-14		
8	.5	92	-0.3	-10		† † -
<i>F</i>	1	101.5	0,2	-0.5		† - †-
10		105,5	0,2	3.5		†
	7	100.5	0.2	-1,5		
12	2	87.5	1.2	-: 14,5	· · ·	
13	./	123	- 0.2	21		
14	1	106.5	0.2	4.5		
15	.5	.99	-0,3	-3.		
						x
			÷		• # •	•
			A			
		\sim			· .	
emarks:						
emarks: NONE						

÷





Page 3 of 4. ATGS #: FW-CAS

SMEAR COUNTING ANALYSIS REPORT

.....

Date: 11-7-94		Analysi	s Perfor	med by R	\geq				
INSTRUMENT ID: <u>20045</u> EFICIENCIES: <u>a Tayn</u> MDA: <u>a Labu</u> PERFORMED BY:	βy 18.0	C DIDIER	1 DATA DETECTO	R ID: <u>U</u>	5-10	<u>> pic</u>	29830		
Sample Count Time: Auliu	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	10 						
a Background: Cpm			Y Report			C pC			
			BY Backgi	cound:	103	_ cr	m		
SAMPLE ID OR DESCRIPTION	GROSS	$\begin{array}{c cccc} GROSS \ COUNTS \\ a & \beta Y \\ \end{array} \begin{array}{c cccc} NET \ COUNTS \\ A & \beta Y \\ \end{array} \begin{array}{c cccc} Activ \\ a \\ \end{array}$							
	2	118	1.2	16		NDA	βγ		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		109	2	17	1-1-1	<u>N DR</u>	142		
	14	95	3.A						
L	0	104	8	1	+-+		┼╌┼╸		
T.	$  \circ$	96	- 8	-6					
G		110	. 2	8					
	3	102	2.1	3	+-+				
<u> </u>	1.5	97		-5	++				
<u>P</u>	0	117	-8	15					
	$\sum_{i=1}^{n}$	109	1		++				
<u> </u>	I	111	or	a	+				
NQ.	0	129	- 8	27	+-+				
	0	116	- 9	14					
- let	0	108	8	6	+				
21	2	100		-2					
16	0	188	8	86			4-18		
	$\mathbf{\lambda}$	109	4	7	<u> </u>	$\uparrow$			
	0	100	- 8	-2	<u> </u>	┼╌┼	<u>żulo</u> a 1		
<u> </u>	$\mathbf{i}$	201	A	~	†	┼╌┼			
10	4	132	3.2	.30		+-+			
	0	- hiert			1	<u>w</u>	Ч		
emarks: 151dg: 5192	Over								
Reviewed by	Specie			, Date	-08-1				

					Second Second	
					Page	+ 0:
					ATGS	#: <u>E</u> J
Date: \\- \- QQ						
		Analysis	s-Perfor	med by:	DSM	متعتد
INSTRUMENT ID: 99045		O OISIEM	DATA			
EFICIENCIES: a ZTalo MDA: a Vadau	BY 190 BY 194			· 12	2-10-1	<u>70c</u> ()
PERFORMED BY:						
a Background: cpm		Activity	Report	In: Kd	pm ∴□ µC	i
SAMPLE ID. OR DESCRIPTION		ββ	Y Backgr	ound:	02 0	рщ
UNITED IN OR DESCRIPTION	GROSS	COUNTS BY	NET (	COUNTS		ivit
and a second sec	1	LACC.		βγ	α	<u> </u>
22	1	108	1.2	164	12MDA	19
		123		6		~
24		100				
		1-2-2	107	30	<u> </u>	
16		149	10.0	21		
. 27	0	149	1.1	47	┼──┼──	20
28		124		25	<u> </u>	29
A	<u> </u>	128	8	16	1·V	<0
						· · ·
	•					
				***		
						.
		N				
	-1/1			. •.		
			· · · · · · · · · · · · · · · · · · ·			
						••
			· }		•	•
marks: Bldg: 3192	Quet	hold	i			$\overline{}$
Reviewed by	peru			11-96-0 , Date		
TGF-006				Jule		

•

.

•

Page / of 3

RADIOLOGICAL SURVEY REPORT ATGS #: Fm-026 5 L.Y. DATE 411.1.1. INSTRUMENTATION USED TIME MODEL S/N EFF.% BKRD CAL. DUE DATE SURVEYOR m-3BX 102498 10 20 __60_ 4-5-95 7-3 00 97134 0 LOCATION -\$192 <u>m-19</u> _ 98/12 NA 14 NA NA REVIEWED BY 2929 -91045 36 00 Arnin 9904 28B Smear Locations Circled; Dose Rates= mR/hr -PURPOSE OF SURVEY: CHARACTERIZATION ·BY readings SMEAR RESULTS 27M RESULTS = DPM/100cm² UNLESS NOTED * DENOTES DIRECT BY READING · · · · · · · # . . . . . Β_Υ . α NORTH SEE ATTACHED 100 *β% SHEE1 18 18 *88 70 120 ~ 1 (5 -14 *BX 60 80 *A* .-Ш (0)18.... 18 80  $\bigcirc$ <del>×</del>βy ÷ Remarks: NONE . . ÷ : : .... ATOY-001 09/93

	RADIOLOGI	CAL	SURV	EY :	REPC		<u>2</u> of <u>.</u>
		<u> </u>					
	DATE 1/-8-94 TIME 024	MODEL		RUMENTA	·····	T	
	0/73	MODEL <u> <u> <u> </u> <u> </u></u></u>	S/N 102498	EFF.%	BKRD		DUE DA
	J. Young	m-3 ~ m-19	<u> </u>	20			- 95 - 95
	REVIEWED BY	NA _2129_	-12043	dA NA	LI- NA	Z=	<u>-15</u> 4
	A A A A A A A A A A A A A A A A A A A	2929	99043	-36 ac 18 A8		3-/j 3-/4	4-45
	Smear Locations Circled; Dose	Rates=	mR/hr				
•	PURPOSE OF SURVEY:	ARACTERI czny,	2ATION Others in	ul/u	RESULT	AR REST TS = DPM NLESS NO	/100cm
	* DENOTES Direct	- B& RE	GADING		#	Β _Υ	α
	T.						
		<u> </u>				SEL	
				Γ		ATT	CHE
	100	8	100   *R			SHE	ET
	+ βγ 111+1 100	VENT					
		V H	<b>+</b>				
			ŦĮ Į		-+-+-		
<i>.</i>				-		<u> </u>	
_	1 80	7)*BX		.  -		<u> </u>	
ľ			土	.  -			······
		0 18		-	<u>}</u>		
	/ 100 *βχ	Ŋ	100 *βχ				
			, 6	-	`	<u> </u>	
•	· · · · · · · · · · · · · · · · · · ·			-		- <u>\</u>	
				┝		<u> </u>	
				-			
		• •		÷ [-			<u> </u>
	Remarks: NON IE						
		<u> </u>		-			
-							

a Background: $\mathcal{A}_{cpm}$ $\mathcal{A}_{ctivity}$ Report In: $\mathcal{A}_{dpm}$ $\mathcal{D}_{pCi}$ SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ $\alpha$ $-i \lambda$ $\mathcal{O}$ $\mathcal{Q}_{q}$ $-i \mathcal{R}$ $-i \mathcal{O}$ $\mathcal{A}_{pY}$ $-i \lambda$ $\mathcal{O}$ $\mathcal{Q}_{q}$ $-i \mathcal{R}$ $-i \mathcal{O}$ $\mathcal{A}_{pY}$ $-i \lambda$ $\mathcal{O}$ $\mathcal{Q}_{q}$ $-i \mathcal{R}$ $-i \mathcal{O}$ $\mathcal{A}_{pY}$	PERFORMED BY: $\square$	MDA: $\alpha$ $\beta$ <th< th=""><th>INSTRUMENT ID:       QQQUEZ       COUNTING SYSTEM DATA DETECTOR ID:       DETECTOR ID:       QQUEZ         EFICIENCIES:       $a \leq coir$ $\beta Y \leq Quez$       DETECTOR ID:       $Q \leq coir$ $Q \leq coir$         MDA:       $a \leq coir$ $\beta Y \leq Quez$ $\beta Y \leq Quez$       DETECTOR ID:       $Q \leq coir$         MDA:       $a \leq coir$ $\beta Y \leq Quez$ $\beta X \leq coir$ $\beta Y \leq Quez$ $\beta Y \leq Quez$         Sample Count Time:       <math>uur&lt;       Activity Report In:       $Q \leq com$ $\beta Y = a \leq com$         Sample Count Time:       <math>uur&lt;       Activity Report In:       $Q \leq com$ $\beta Y = a \leq com$         Sample Count:       $\Box com$ $\beta Y = a \leq com$ $\beta Y = a \leq com$ $\beta Y = a = a = com$         SAMPLE ID:       OR OESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $a = \beta Y = a = b = com$ $\beta Y = a = b = com$ $\beta Y = a = b = com$ $\beta Y = a = b = com$ $a = 0 = com$ $Q = com$ </math></math></th><th>INSTRUMENT ID:       QQC42       COUNTING SYSTEM DATA DETECTOR ID:         EFICIENCIES:       $a$ $\beta V$ $\beta Q$         MDA:       $a$ $\beta V$ $\beta Q$         MDA:       $a$ $\beta V$ $\beta Q$         PERFORMED BY:       $\beta V$ $\beta Q$ $\beta V$         Sample Count Time:       $uu_{UV}$       Activity Report In:       $Q$ dpm       $\mu Ci$ $a$       Background:       $Q$ $Q$ $cpm$ $\beta Y$ $a$         SAMPLE ID:       OR:       DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $a$ $\beta Y$ $a$ $\beta Y$ $a$ $\beta Y$ $a$ $-1$ $Q$ $Q$ $-\delta$ $-10$ $uu$ $A$</th><th>Date:       Analysis Performed by:       Spin.         INSTRUMENT ID:       QQCUTS       COUNTING SYSTEM DATA         EFICIENCIES:       $a$       Scain       $\beta y$ $MCCL$         MDA:       $a$ $\beta y$ $MCCL$       DETECTOR ID:       $M-3$         Sample Count Time:       $MUN_{a}$ $\beta y$ <math>Activity Report In: Common plci         a Background:       $G$ $Gm$ $\beta y$ $Background:$ $QC$ $a$ $\beta y$ $a$ $\beta y$ $a$ $\beta y$ $a$ $Background:$ $GC$ $Gm$ $Activity$ $Activity$ $a$ $Background:$ $GC$ $Gm$ $Activity$ $Activity$ $a$ $\beta Y$ $a$ $\beta Y$ $a$ $\beta Y$ $a$ $a$ $BY$ $a$ $\beta Y$ $a$ $A$<!--</math--></math></th><th>MDA:       $\alpha$ $\beta$ <th< th=""><th></th><th><u>}.</u></th><th>e de la</th><th>·</th></th<></th></th<>	INSTRUMENT ID:       QQQUEZ       COUNTING SYSTEM DATA DETECTOR ID:       DETECTOR ID:       QQUEZ         EFICIENCIES: $a \leq coir$ $\beta Y \leq Quez$ DETECTOR ID: $Q \leq coir$ $Q \leq coir$ MDA: $a \leq coir$ $\beta Y \leq Quez$ $\beta Y \leq Quez$ DETECTOR ID: $Q \leq coir$ MDA: $a \leq coir$ $\beta Y \leq Quez$ $\beta X \leq coir$ $\beta Y \leq Quez$ $\beta Y \leq Quez$ Sample Count Time: $uur<       Activity Report In:       Q \leq com \beta Y = a \leq com         Sample Count Time:       uur<       Activity Report In:       Q \leq com \beta Y = a \leq com         Sample Count:       \Box com \beta Y = a \leq com \beta Y = a \leq com \beta Y = a = a = com         SAMPLE ID:       OR OESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a = \beta Y = a = b = com a = 0 = com Q = com $	INSTRUMENT ID:       QQC42       COUNTING SYSTEM DATA DETECTOR ID:         EFICIENCIES: $a$ $\beta V$ $\beta Q$ MDA: $a$ $\beta V$ $\beta Q$ MDA: $a$ $\beta V$ $\beta Q$ PERFORMED BY: $\beta V$ $\beta Q$ $\beta V$ Sample Count Time: $uu_{UV}$ Activity Report In: $Q$ dpm $\mu Ci$ $a$ Background: $Q$ $Q$ $cpm$ $\beta Y$ $a$ SAMPLE ID:       OR:       DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $a$ $\beta Y$ $a$ $\beta Y$ $a$ $\beta Y$ $a$ $-1$ $Q$ $Q$ $-\delta$ $-10$ $uu$ $A$	Date:       Analysis Performed by:       Spin.         INSTRUMENT ID:       QQCUTS       COUNTING SYSTEM DATA         EFICIENCIES: $a$ Scain $\beta y$ $MCCL$ MDA: $a$ $\beta y$ $MCCL$ DETECTOR ID: $M-3$ Sample Count Time: $MUN_{a}$ $\beta y$ $Activity Report In: Common plci         a Background:       G Gm \beta y Background: QC a \beta y a \beta y a \beta y a Background: GC Gm Activity Activity a Background: GC Gm Activity Activity a \beta Y a \beta Y a \beta Y a a BY a \beta Y a A A A A A A A A A A A A$	MDA: $\alpha$ $\beta$ <th< th=""><th></th><th><u>}.</u></th><th>e de la</th><th>·</th></th<>		<u>}.</u>	e de la	·	
$\alpha$ Background: $G$ cpm $\beta \gamma$ Background: $Q$ cpm         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $-i \Delta$ $0$ $Q Q$ $-i S$ $-i O$ $\omega$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $-i \Delta$ $0$ $Q Q$ $-i S$ $-i O$ $\omega$ $\beta \gamma$ $-i \Delta$ $0$ $Q Q$ $-i S$ $-i O$ $\omega$ $\omega$ $-i \Delta$ $1$ $Q Q$ $-i S$ $-i O$ $\omega$ $\omega$ $-i \Delta$ $1$ $Q Q$ $-i S$ $-i O$ $\omega$ $\omega$ $-i \Delta$ $1$ $2$ $Q G$ $i O$ $-i S$ $-i O$ $\omega$ $-i \Delta$ $1$ $2$ $Q G$ $i O$ $-i S$ $-i O$ $-i O$ $-i \Delta$ $2$ $Q G$ $i O$ $-i S$ $-i O$	PERFORMED BY:       Description       pylotication         Sample Count Time:       During       Activity Report In:       Odpm       ppCi $\alpha$ Background: $\underline{\ 0}$ $\underline$	MDA: $\alpha$ $\beta\gamma$	INSTRUMENT ID: $QQCUTZ$ DETECTOR ID: $UTING SYSTEM DATA$ EFICIENCIES: $a \leq CQi \beta$ BY $QQL$ MDA: $a \leq LAPULA$ BY $QQL$ PERFORMED BY: $A \leq LAPULA$ BY $QQL$ Sample Count Time: $L$ U.U. Activity Report In: $Qdpm \square \muCi$ a Background: Q Cpm BY Background: $QQ CpmSAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activitya \beta Y a \beta Y a \beta Y a \beta Y-iQ Q Q - S - IO \leq MDA \leq M-iQ Q Q Q - S - IO \leq MDA \leq M-iQ Q Q Q - S - IO \leq MDA \leq M$	INSTRUMENT ID: $QQCUTS$ Detector ID: $UTS - 10 - 100873$ EFICIENCIES: $a \leq Cois$ $\beta Y \leq Cais$ $Detector ID:$ $UTS - 10 - 100873$ MDA: $a \leq Cois$ $\beta Y \leq Cais$ $\beta Y \leq Cais$ $Detector ID:$ $UTS - 10 - 100873$ MDA: $a \leq Cois$ $\beta Y \leq Cais$ $\beta Y \leq Cais$ $Detector ID:$ $UTS - 10 - 100873$ Sample Count Time: $UTS = A$ $\beta Y \leq Cais$ $Activity Report In:$ $Cois = Cais$ $Detector ID:$ $UTS = A$ Sample Count Time: $UTS = A$ $Activity Report In:$ $Cois = Cais$ $Detector ID:$ $Detector ID:$ $Detector ID:$ $a = Background:       G = Cpm Activity Report In: Cois = Cais = A Activity a = BY Activity a = BY Activity a = BY Activity a = BY Activity = ACtivity = ACtivity = ACtivity Activity = ACtis = ACtivity = AC$	Date:       1.2       9.4       Analysis       Performed by:       Solution         INSTRUMENT ID:       9.0000       COUNTING SYSTEM DATA DETECTOR ID:       DETECTOR ID:       9.0000         INSTRUMENT ID:       9.0000       9.0000       DETECTOR ID:       9.0000         INSTRUMENT ID:       9.0000       9.0000       DETECTOR ID:       9.0000         INSTRUMENT ID:       9.0000       9.0000       DETECTOR ID:       9.0000         MDA:       a       9.00000       9.0000       0.0000       9.0000         Sample Count Time:       9.00000       9.00000       9.00000       9.00000       9.00000         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a       9.00000       9.00000       9.000000       9.000000         -       0       0.000000      00000000       9.00000000         -       0       0.00000000000000000000000000000000000	AIGS # 2         SMEAR COUNTING ANALYSIS REPORT         Date: 1-8 -94         COUNTING ANALYSIS REPORT         INSTRUMENT ID: 940         COUNTING SYSTEM DATA         DETECTOR ID: 473-10-100370         DATA         DETECTOR ID: 473-10-100370         MDA:         A SAMPLE OUNT TIME: 400 DETECTOR ID: 473-10-100370         MDA:         A SAMPLE OUNT IN: 400 DETECTOR ID: 473-10-100370         SAMPLE OUNT IN: 400 DETECTOR ID: 473-10-100370         MDA:         A SAMPLE OUNT IM: 400 DETECTOR ID: 473-10-100370         SAMPLE Count Time: 400 DETECTOR ID: 473-10-100370         GENERGENERGENERGENERGENERGENERGENERGENE	4 29612-	5	2 2		
a Background: $\underline{\ G}$ $\underline{\ Cpm}$ $\underline{\ By \ Background:}$ $\underline{\ QQ}$ $\underline{\ Cpm}$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ $-\frac{1}{2}$ $\overline{\ QQ}$ $-\frac{1}{28}$ $-10$ $\underline{\ WDA}$ $\underline{\ Cpm}$ $-\frac{1}{2}$ $\overline{\ QQ}$ $-\frac{1}{28}$ $-10$ $\underline{\ WDA}$ $\underline{\ QQ}$ $-\frac{1}{2}$ $\overline{\ QQ}$ $-\frac{1}{28}$ $-10$ $\underline{\ WDA}$ $\underline{\ QQ}$ $-\frac{1}{2}$ $\overline{\ QQ}$ $-\frac{1}{28}$ $\overline{\ QQ}$ $-\frac{1}{28}$ $\underline{\ QQ}$ <th>PERFORMED BY:       Activity Report In: $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$</th> <th>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</th> <th>INSTRUMENT ID:       $QQCUTZ$       DETECTOR ID:       $UTT = 0$         EFICIENCIES:       $a \leq Cois$ $\betaY \leq Cai$       DETECTOR ID:       $UTT = 0$         MDA:       $a \leq Cois$ $\betaY \leq Cai$ $\betaY \leq Cai$       DETECTOR ID:       $UTT = 0$         MDA:       $a \leq Cois$ $\betaY \leq Cai$ $\betaY \leq Cai$ $\betaY \leq Cai$ $DETECTOR ID:$ $UTT = 0$         MDA:       $a \leq Cais$ $\betaY \leq Cai$ $\betaY \leq Cai$ $\betaY \leq Cai$ $\betaY \leq Cai$         MDA:       $a \leq Cais$ $\betaY \leq Cai$ $\betaY \leq Cai$ $\betaY \leq Cai$ $\betaY \leq Cai$         Sample Count Time:       <math>utres       $Activity Report In: \nabla dpm = pci$ $pci$ $a = Background:$ $Cpm$ $\betaY = Background: \underline{-Q} &lt; cpm$ $Activity$ $a = \betaY$ $A = Q = Q = -S$ $A = Q = -S$ $A = Q = -S$ $A = -1$ $A = Q = -S$ $A = -1$ $A = Q = Q = -S$ $A = Q = -S$ $A = -1$ <t< math=""></t<></math></th> <th>INSTRUMENT ID: $QQ QUUZ DETECTOR ID: UZ - 10 - 100830$ EFICIENCIES: $a \leq Coir &amp; BY - 100 DETECTOR ID: UZ - 10 - 100830$ MDA: $a = 0 + Duu BY + 200 + Duu$</th> <th>Date:       Analysis       Performed       by:       Source         INSTRUMENT ID:       $QQQUZ$       DETECTOR ID:       $UZICIOQSTA$         EFICIENCIES:       $a \leq QQUZ$ $\beta Y \leq QQ$       DETECTOR ID:       $UZICIOQSTA$         MDA:       $a \leq QQUZ$ $\beta Y \leq QQUZ$       DETECTOR ID:       $UZICIOQSTA$         MDA:       $a \leq QQUZ$ $\beta Y \leq QQUZ$       DETECTOR ID:       $UZICIOQSTA$         Sample Count Time:       <math>UUIL       Activity Report In:       $Qdpm \Box pCi$ $a = Background:$ $Cpm$ $\beta Y = Background:$ $QQ = cpm$         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $a = \beta Y$ $a = QQ = -S = IO$ $UUIA = -S = Z$ $QQ = -S = IO$ $UUIA = -S = Z$ </math></th> <th>And ysis REPORT         Date: $N=S-q_{++}$       Analysis REPORT         COUNTING SYSTEM DATA         DETECTOR ID: $A=S-O-O$         INSTRUMENT ID: $q=Q_{-}O_{-}O_{-}O_{-}O_{-}O_{-}O_{-}O_{-}O$</th> <th>$\frac{1}{5}$</th> <th>5</th> <th>2 4 C - C - C - C - C - C - C - C - C - C</th> <th>· · · ·</th>	PERFORMED BY:       Activity Report In: $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQCUTZ$ DETECTOR ID: $UTT = 0$ EFICIENCIES: $a \leq Cois$ $\betaY \leq Cai$ DETECTOR ID: $UTT = 0$ MDA: $a \leq Cois$ $\betaY \leq Cai$ $\betaY \leq Cai$ DETECTOR ID: $UTT = 0$ MDA: $a \leq Cois$ $\betaY \leq Cai$ $\betaY \leq Cai$ $\betaY \leq Cai$ $DETECTOR ID:$ $UTT = 0$ MDA: $a \leq Cais$ $\betaY \leq Cai$ $\betaY \leq Cai$ $\betaY \leq Cai$ $\betaY \leq Cai$ MDA: $a \leq Cais$ $\betaY \leq Cai$ $\betaY \leq Cai$ $\betaY \leq Cai$ $\betaY \leq Cai$ Sample Count Time: $utres       Activity Report In: \nabla dpm = pci pci a = Background: Cpm \betaY = Background: \underline{-Q} < cpm Activity a = \betaY A = Q = Q = -S A = Q = -S A = Q = -S A = -1 A = Q = -S A = -1 A = Q = Q = -S A = Q = -S A = -1 $	INSTRUMENT ID: $QQ QUUZ DETECTOR ID: UZ - 10 - 100830$ EFICIENCIES: $a \leq Coir & BY - 100 DETECTOR ID: UZ - 10 - 100830$ MDA: $a = 0 + Duu BY + 200 + Duu $	Date:       Analysis       Performed       by:       Source         INSTRUMENT ID: $QQQUZ$ DETECTOR ID: $UZICIOQSTA$ EFICIENCIES: $a \leq QQUZ$ $\beta Y \leq QQ$ DETECTOR ID: $UZICIOQSTA$ MDA: $a \leq QQUZ$ $\beta Y \leq QQUZ$ DETECTOR ID: $UZICIOQSTA$ MDA: $a \leq QQUZ$ $\beta Y \leq QQUZ$ DETECTOR ID: $UZICIOQSTA$ Sample Count Time: $UUIL       Activity Report In:       Qdpm \Box pCi a = Background: Cpm \beta Y = Background: QQ = cpm         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a = \beta Y a = QQ = -S = IO UUIA = -S = Z QQ = -S = IO UUIA = -S = Z $	And ysis REPORT         Date: $N=S-q_{++}$ Analysis REPORT         COUNTING SYSTEM DATA         DETECTOR ID: $A=S-O-O$ INSTRUMENT ID: $q=Q_{-}O_{-}O_{-}O_{-}O_{-}O_{-}O_{-}O_{-}O$	$\frac{1}{5}$	5	2 4 C - C - C - C - C - C - C - C - C - C	· · · ·	
a Background: $\square$	PERFORMED BY:       Second Seco	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	INSTRUMENT ID: $QQOUTS$ DUTING SYSTEM DATA EFICIENCIES: $a \leq COUNTING SYSTEM DATA DETECTOR ID: 43 \leq -10 \leq 100833MDA: a \leq COUNT = \beta \leq COUNTSSample Count Time: Activity Report In: Qdpm = pcia Background: Activity Report In: Qdpm = pcia Ba$	INSTRUMENT ID: $QQ_{CU}$ DETECTOR ID: $U_{CU}$ MDA:       DETECTOR ID: $U_{CU}$ MDA:       DETECTOR ID: $U_{CU}$ MDA:       DETECTOR ID: $U_{CU}$ Sample Count Time:       Activity Report In: $Qdpm$ DETECTOR         Sample Count Time:       Activity Report In: $Qdpm$ DETECTOR         Sample Count Time:       Activity Report In: $Qdpm$ DETECTOR         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         A       Q       Q         A       Q         Q       Q         A       Q         A       Q         A       Q         A       Q         A <th colspan<="" th=""><th>Analysis Performed by: $\Box \subseteq \Box$         COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box$         INSTRUMENT ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         MDA:         $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         MDA:       $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box$ $\beta Y \equiv \Box \Box \Box \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box \Box$ $\Box \equiv \Box \subseteq \Box \Box \subseteq \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $\Box = \Box \Box$</th><th>MEAR COUNTING ANALYSIS REPORT         Date:</th><th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th><th>5</th><th></th><th></th></th>	<th>Analysis Performed by: $\Box \subseteq \Box$         COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box$         INSTRUMENT ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         MDA:         $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         MDA:       $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box$ $\beta Y \equiv \Box \Box \Box \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box \Box$ $\Box \equiv \Box \subseteq \Box \Box \subseteq \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $\Box = \Box \Box$</th> <th>MEAR COUNTING ANALYSIS REPORT         Date:</th> <th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th> <th>5</th> <th></th> <th></th>	Analysis Performed by: $\Box \subseteq \Box$ COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box$ INSTRUMENT ID: $\Box \subseteq \Box \subseteq \Box$ DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$ DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$ MDA: $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$ MDA: $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$ Sample Count Time: $\Box \sqcup \Box \subseteq \Box$ $\beta Y \equiv \Box \Box \Box \Box$ Sample Count Time: $\Box \sqcup \Box \subseteq \Box \Box$ $\Box \equiv \Box \subseteq \Box \Box \subseteq \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\Box = \Box \Box$	MEAR COUNTING ANALYSIS REPORT         Date:	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5		
a Background:       Cpm $\beta Y$ Background: $\underline{q} Q$ $cpm$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ $-12$ $0$ $QQ$ $-58$ $-10$ $\Delta MPIA$ $-12$ $0$ $100$ $-58$ $-10$ $-10$ $-10$ $-12$ $0$ $100$ $-88$ $0$ $-10$ $-10$ $-10$ $-10$ $-10$ $-12$ $0$ $100$ $-88$ $0$ $-10$ $-10$ $-10$ $-10$ $-10$ $-10$ $-10$ $-10$ $-10$ $-10$ $-10$ $-$	PERFORMED BY:       Description       PYISOLATION       Activity Report In: $\nabla dpm$ D $\muCi$ a Background: $\Delta$ cpm       By Background: $\underline{\mbox{$90$}}$ $\$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $a = 0$ $\beta \vee 1$ $Data$ EFICIENCIES: $a = 5$ $\beta \vee 1$ $Court       Detector ID: \Box = 1 Court = 10         MDA:       a = 1 \beta \vee 1 \beta \vee 1 \beta \vee 1 Detector ID: \Box = 10 \Box = 10         MDA:       a = 1 a = 1 \beta \vee 1 \beta \vee 1 \beta \vee 1 \Box = 10 \Box = 10         Sample Count Time:       u = 1 Activity Report In: \nabla dpm = pci a = 10 cpm a = ackground: = 1 a = 1 a = 10 \beta \vee a = 10 cpm a = ackground: = 1 a = 1 \beta \vee a = 10 \beta \vee a = 10 cpm         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS NET COUNTS Activity = 0 a = 1 a = 1 a = 10 a = 10 a = 10 a = 1 a = 1 a = 10 a = 10 a = 10 a = 10 a = 1 a = 10 a = 1 a = 10 $	INSTRUMENT ID: $a O O C S$ $BV S C C$ $DETECTOR ID: C C C C C C C C C C C C C C C C C C C$	Analysis Performed by $S$ $S$ $a_1$ COUNTING SYSTEM DATA         DETECTOR ID: $43 - 40 - 40$ INSTRUMENT ID: $90 - 60 - 100$ INSTRUMENT ID: $90 - 60 - 100$ DETECTOR ID: $43 - 40 - 100$ DETECTOR ID: $43 - 40 - 100$ MARK         Sample Count Time: $100 - 100$ Sample Count Time: $100 - 100$ SAMPLE ID: OR DESCRIPTION         GROSS COUNTS       NET COUNTS         Activity Report In: $90 - 100$ Com         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         O       QQQ       - $90 - 20$ Autivity         O       QQQ       - $90 - 20$ - $90 - 20$ SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         O       - $90 - 20$ - $90 - 20$ - $90 - 20$ - $90 - 20$ - $90 - 20$ - $90 - 20$ <th col<="" th=""><th>SMEAR COUNTING ANALYSIS REPORT Date: Arids #: Price Pri</th><th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th><th>5</th><th></th><th></th></th>	<th>SMEAR COUNTING ANALYSIS REPORT Date: Arids #: Price Pri</th> <th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th> <th>5</th> <th></th> <th></th>	SMEAR COUNTING ANALYSIS REPORT Date: Arids #: Price Pri	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5		
a Background: $\square$	PERFORMED BY:       Description       PYISOLATION       Activity Report In: $\nabla dpm$ D $\muCi$ a Background: $\Delta$ cpm       By Background: $\underline{\mbox{$90$}}$ $\$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $a = 0$ $\beta \vee 1$ $Data$ EFICIENCIES: $a = 5$ $\beta \vee 1$ $Court       Detector ID: \Box = 1 Court = 10         MDA:       a = 1 \beta \vee 1 \beta \vee 1 \beta \vee 1 Detector ID: \Box = 10 \Box = 10         MDA:       a = 1 a = 1 \beta \vee 1 \beta \vee 1 \beta \vee 1 \Box = 10 \Box = 10         Sample Count Time:       u = 1 Activity Report In: \nabla dpm = pci a = 10 cpm a = ackground: = 1 a = 1 a = 10 \beta \vee a = 10 cpm a = ackground: = 1 a = 1 \beta \vee a = 10 \beta \vee a = 10 cpm         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS NET COUNTS Activity = 0 a = 1 a = 1 a = 10 a = 10 a = 10 a = 1 a = 1 a = 10 a = 10 a = 10 a = 10 a = 1 a = 10 a = 1 a = 10 $	INSTRUMENT ID: $a O O C S$ $BV S C C$ $DETECTOR ID: C C C C C C C C C C C C C C C C C C C$	Analysis Performed by $S$ $S$ $a_1$ COUNTING SYSTEM DATA         DETECTOR ID: $43 - 40 - 40$ INSTRUMENT ID: $90 - 60 - 100$ INSTRUMENT ID: $90 - 60 - 100$ DETECTOR ID: $43 - 40 - 100$ DETECTOR ID: $43 - 40 - 100$ MARK         Sample Count Time: $100 - 100$ Sample Count Time: $100 - 100$ SAMPLE ID: OR DESCRIPTION         GROSS COUNTS       NET COUNTS         Activity Report In: $90 - 100$ Com         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         O       QQQ       - $90 - 20$ Autivity         O       QQQ       - $90 - 20$ - $90 - 20$ SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         O       - $90 - 20$ - $90 - 20$ - $90 - 20$ - $90 - 20$ - $90 - 20$ - $90 - 20$ <th col<="" th=""><th>SMEAR COUNTING ANALYSIS REPORT Date: Arids #: Price Pri</th><th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th><th>5</th><th></th><th></th></th>	<th>SMEAR COUNTING ANALYSIS REPORT Date: Arids #: Price Pri</th> <th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th> <th>5</th> <th></th> <th></th>	SMEAR COUNTING ANALYSIS REPORT Date: Arids #: Price Pri	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5		
a Background:       Cpm $\beta Y$ Background: $\underline{q} Q$ $cpm$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ $-12$ $0$ $QQ$ $-58$ $-10$ $\Delta MPIA$ $-12$ $0$ $100$ $-58$ $-10$ $-10$ $-10$ $-12$ $0$ $100$ $-88$ $0$ $-10$ $-10$ $-10$ $-10$ $-10$ $-12$ $0$ $100$ $-88$ $0$ $-10$ $-10$ $-10$ $-10$ $-10$ $-10$ $-10$ $-10$ $-10$ $-10$ $-10$ $-$	PERFORMED BY:       Description       pylstate         Sample Count Time: $uun$ Activity Report In: $\ Com \ Dpci$ a Background: $\underline{Cpm}$ $\beta Y$ Background: $\underline{QQ}$ cpm         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $a$ $\beta Y$ $a$ $\beta Y$ $a$ $\beta Y$ $-1$ $0$ $\underline{QQ}$ $-u$ $a$ $\beta Y$ $-1$ $0$ $\underline{QQ}$ $-u$ $unn$ $a$ $-1$ $0$ $\underline{QQ}$ $-u$ $a$ $\beta Y$ $-1$ $0$ $\underline{QQ}$ $-u$ $unn$ $unn$ $a$ $-1$ $0$ $\underline{QQ}$ $-u$ $unn$ $unn$ $unn$ $unn$ $-1$ $0$ $\underline{QQ}$ $-u$ $unn$ $unnn$ $unnn$ $unn$ $unn$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQ_{CV}$ Detector Data         EFICIENCIES: $a$ $S_{CV}$ $BY$ $QQ_{CV}$ MDA: $a$ $A$ $BY$ $QQ_{CV}$ PERFORMED BY: $a$ $A$ $BY$ $Report In: Qdpm - D \muCi$ a Background: $a$ $A$ $A$ $Cpm$ $BY$ $Background: -Q$ $Qpm$ Sample Count Time: $VIIIIN$ Activity Report In: $Qdpm - D$ $PCi$ a Background: $a$ $BY$ $a$ $BY$ $a$ $BY$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $A$ $Q$ $Q$ $Q$ $Q$ $Q$ $A$ $Q$ $Q$ $Q$ $Q$ $Q$ $Q$ $A$ $Q$ $Q$	INSTRUMENT ID: $a$	Analysis Performed by: $\sum \sum_{i=1}^{n} C_{i}$ COUNTING SYSTEM DATA         DETECTOR ID: $43 - 10 - 100$ (00870)         INSTRUMENT ID: $200 - 100$ (00870)         DETECTOR ID: $43 - 10 - 100$ (00870)         DETECTOR ID: $43 - 10 - 100$ (00870)         DETECTOR ID: $43 - 10 - 100$ (00870)         METECTOR ID: $43 - 10 - 100$ (00870)         METECTOR ID: $43 - 10 - 100$ (00870)         Sample Count Time: $\Delta$ use Activity Report In: $20 - 100$ (00870)         Sample Count Time: $\Delta$ use Activity Report In: $20 - 100$ (00870)         SAMPLE ID: OR DESCRIPTION         GROSS COUNTS         NET COUNTS         Activity $\alpha$ $\beta Y$ $\alpha$ $\Delta$ $C_{10}$ ( $\alpha$ ( $\beta$ ) $\alpha$ $\beta$ $\alpha$ $\beta$ $\alpha$ $\alpha$ $\beta$ $\alpha$ $\alpha$ $\beta$ $\alpha$ $\alpha$ $\beta$ $\alpha$ $\alpha$	SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by Construction of the counting system data COUNTING SYSTEM DATA DETECTOR ID: $45 - 10 - 109530$ MDA: COUNTING SYSTEM DATA DETECTOR ID: $45 - 10 - 109530$ MDA: COUNT TIME: $45 - 100 - 109530$ MDA: COUNT TIME: $45 - 100 - 109530$ Sample Count Time: $4 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background:       Cpm       Activity Report In: Cdpm $\Box$ µCi         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a $\beta Y$ a $\beta Y$ a $\beta Y$	PERFORMED BY:       Description       Privation       Activity Report In: $\[mathcar{C}] dpm \[mathcar{D}] pCi         a Background:       Activity       Report In: \[mathcar{C}] dpm \[mathcar{D}] pCi         a Background:       Activity       Report In: \[mathcar{C}] dpm \[mathcar{D}] pCi         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a       BY       a       BY       a       BY       a       BY         i       O       CQ       -s       -s       -s       Activity       a       BY       CM       CM       CM       CM       CM       CM$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQ_{CU}$ EFICIENCIES: $a \leq QQ_{L}$ BY SQL DETECTOR ID: $\Delta \leq Q_{L}$ OQSTA MDA: $a \leq QQ_{L}$ BY SQL PERFORMED BY: $\Delta$ Activity Report In: $Qq_{m} = Q_{L}$ Sample Count Time: $\Delta$ use Activity Report In: $Qq_{m} = Q_{L}$ opm SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity $a = Background: QQ_{L} = Q = Q = Q = Q = Q = Q = Q = Q = Q = $	INSTRUMENT ID: $QQOURS$ DUNTING SYSTEM DATA EFICIENCIES: $a \leq CQL$ BY SQL MDA: $a \leq CQL$ BY SQL PERFORMED BY: $QQUE = QQUE =$	Analysis Performed by $S_{S_{S_{S_{S_{S_{S_{S_{S_{S_{S_{S_{S_{S$	SMEAR COUNTING ANALYSIS REPORT Date: Maiysis Performed by:  COUNTING SYSTEM DATA DETECTOR ID: $MDA: a SOCIA BY SCUC MDA: a SOCIA BY SCUC Sample Count Time:  SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity a Background:  A CIVITY Report In: Counts Activity a BY a BY$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background:       Cpm       Activity Report In: Cdpm       pCi         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a $\beta Y$ a $\beta Y$ a $\beta Y$ -::       Q $\neg S$ $\neg S$ $\neg S$ $\neg S$ -::       Q $\neg S$ $\neg S$ $\neg S$ $\neg S$ -::       Q $\neg S$ $\neg S$ $\neg S$ $\neg S$ -::       Q $\neg S$ $\neg S$ $\neg S$ $\neg S$ -::       Q $\neg S$ $\neg S$ $\neg S$ $\neg S$ -::       Q $\neg S$ $\neg S$ $\neg S$ $\neg S$ -::       Q $\neg S$ $\neg S$ $\neg S$ $\neg S$ -:: $\neg S$ $\neg S$ $\neg S$ $\neg S$ $\neg S$ -:: $\neg S$ $\neg S$ $\neg S$ $\neg S$ $\neg S$ -: $\neg S$ $\neg S$ $\neg S$ $\neg S$ $\neg S$ -: $\neg S$ $\neg S$ $\neg S$ $\neg S$ $\neg S$ -: $\neg S$ $\neg S$ $\neg S$	PERFORMED BY:       Description       PYIGG APA         Sample Count Time:       Luin       Activity Report In: $Q dpm \square \muCi$ a Background: $\underline{Q}$ cpm $\beta Y$ Background: $\underline{Q} Q$ cpm         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a $\beta Y$ a $\beta Y$ a $\beta Y$ a $\beta Y$ - $\Delta$ $Q Q$ $\neg R$ $\neg Q$ $\neg R$ $\neg Q$ $\neg R$ - $\Delta$ $Q Q$ $\neg R$ $\neg Q$ $\neg R$ $\neg Q$ $\neg R$ - $\Delta$ $Q Q$ $\neg R$ $\neg Q$ $\neg R$ $\neg Q$ $\neg R$ - $\Delta$ $Q Q$ $\neg R$ $\neg Q$ $\neg R$ $\neg R$ $\neg R$ - $\neg Q$ <td< td=""><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>INSTRUMENT ID: $QQ_{CUT}$ EFICIENCIES: $a \leq CQ_{10}$ $\beta_V \leq Q_{10}$ MDA: $a \leq Q_{10}$ $\beta_V \leq Q_{10}$ DETECTOR ID: $Q \leq C_{10} \leq Q_{10}$ MDA: $a \leq Q_{10}$ $\beta_V \leq Q_{10}$ Sample Count Time: $Q_{10}$ $\beta_V \leq Q_{10}$ $a = Background: Q \leq Cpm$ $\beta_V Background: Q \leq Cpm$ SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity $a = \beta_V = a = \beta_V = a = \beta_V = a = \beta_V$ $A = Q \leq Q_{10} = -\delta = -$</td><td>INSTRUMENT ID: $QQ_{QQ} = Q_{QQ} = Q_{$</td><td>Date: $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>5</td><td></td><td></td></td<>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQ_{CUT}$ EFICIENCIES: $a \leq CQ_{10}$ $\beta_V \leq Q_{10}$ MDA: $a \leq Q_{10}$ $\beta_V \leq Q_{10}$ DETECTOR ID: $Q \leq C_{10} \leq Q_{10}$ MDA: $a \leq Q_{10}$ $\beta_V \leq Q_{10}$ Sample Count Time: $Q_{10}$ $\beta_V \leq Q_{10}$ $a = Background: Q \leq Cpm$ $\beta_V Background: Q \leq Cpm$ SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity $a = \beta_V = a = \beta_V = a = \beta_V = a = \beta_V$ $A = Q \leq Q_{10} = -\delta = -$	INSTRUMENT ID: $QQ_{QQ} = Q_{QQ} = Q_{$	Date: $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background: $\underline{\ }$ Cpm $\beta Y$ Background: $\underline{\ }$ Q $cpm$ SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta Y$ $\beta Y$ $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ $\beta Y$ $\alpha$ $\beta Y$	PERFORMED BY:       Description       PYIGGAARA         Sample Count Time:       Luin       Activity Report In: $\[Color dpm] = \muCi$ a Background: $____________________________________$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQCQCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC$	INSTRUMENT ID: QQ CUTT EFICIENCIES: a Scale BY SCA MDA: a A ADA BY SCA Sample Count Time: A use Activity Report In: Q dpm $\Box$ µCi a Background: Q cpm BY Background: QQ cpm SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity a BY a BY a BY a BY a BY a BY a BY A CO QQ ${b}$ C CO CUNTS Activity A CO QQ ${b}$ C CO CUNTA CUNTS ACTIVITY A CO QQ ${b}$ C C CUNTA CUNTA CUNTA C C C CO CO C C CUNTA CUNTA CUNTA C C C CO CO C C CUNTA CUNTA CUNTA C C C C CO C C CUNTA CUNTA CUNTA C C C C CO C C C CUNTA CUNTA CUNTA C C C C C C C C CUNTA CUNTA CUNTA C C C C C C C C C CUNTA CUNTA C C C C C C C C C C C CUNTA CUNTA C C C C C C C C C C C C C C C C C C C	Date: $N-S-QLL$ Analysis Performed by: $S_{S}$ COUNTING SYSTEM DATA         DETECTOR ID: $A'S-IO-IOQSTOR         MDA:       a SCQL       \beta Y SCL_{C}         MDA:       a SCQL       \beta Y SCQL_{C}         MDA:       a SCQL       \beta Y SCQL_{C}         MDA:       a COLL       \beta Y SCQL_{C}         MDA:       a COLL       \beta Y SCQL_{C}         Sample Count Time:       UULL       Activity Report In: COUNTS Activity a \beta Y a Q Q Q $	And ysis REPORT         SEMEAR COUNTING ANALYSIS REPORT         Date:	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background: $\underline{\ }$ Cpm $\beta \gamma$ Background: $\underline{\ }$ Q $cpm$ SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta \gamma$ $\beta \gamma$ $\alpha$ $\alpha$ $\alpha$ $\beta \gamma$ $\alpha$ $\alpha$ $\beta \gamma$ $\alpha$ $\alpha$ $\beta \gamma$ $\alpha$ $\alpha$ $\beta \gamma$	PERFORMED BY:       Description       PYIGGAARA         Sample Count Time:       Luin       Activity Report In: $\[ \columbol{Q} dpm \] \columbol{D} pCi \]         a Background:       \[ \columbol{Q} \] \columbol{Q} \]       \tolubbol{Q} \] \columbol{Q} \] \columbol{Q} \] \columbol{Q} \] \colubol{Q} \] \tolubol{Q} \] \tolubol{Q} \] \to$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQCQCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC$	INSTRUMENT ID: QQ CUTT EFICIENCIES: a Scale BY SCA MDA: a A ADA BY SCA Sample Count Time: A use Activity Report In: Q dpm $\Box$ µCi a Background: Q cpm BY Background: QQ cpm SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity a BY a BY a BY a BY a BY a BY a BY A CO QQ ${b}$ C CO CUNTS Activity A CO QQ ${b}$ C CO CUNTA CUNTS ACTIVITY A CO QQ ${b}$ C C CUNTA CUNTA CUNTA C C C CO CO C C CUNTA CUNTA CUNTA C C C CO CO C C CUNTA CUNTA CUNTA C C C C CO C C CUNTA CUNTA CUNTA C C C C CO C C C CUNTA CUNTA CUNTA C C C C C C C C CUNTA CUNTA CUNTA C C C C C C C C C CUNTA CUNTA C C C C C C C C C C C CUNTA CUNTA C C C C C C C C C C C C C C C C C C C	Date: $N-S-QLL$ Analysis Performed by: $S_{S}$ COUNTING SYSTEM DATA         DETECTOR ID: $A'S-IO-IOQSTOR         MDA:       a SCQL       \beta Y SCL_{C}         MDA:       a SCQL       \beta Y SCQL_{C}         MDA:       a SCQL       \beta Y SCQL_{C}         MDA:       a COLL       \beta Y SCQL_{C}         MDA:       a COLL       \beta Y SCQL_{C}         Sample Count Time:       UULL       Activity Report In: COUNTS Activity a \beta Y a Q Q Q $	And ysis REPORT         SEMEAR COUNTING ANALYSIS REPORT         Date:	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background:       Cpm       GROSS COUNTS       NET COUNTS       Activity         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $a$ $\beta Y$ $a$ $a$ $\beta Y$ $a$ $Q$ <	PERFORMED BY:       Activity Report In:       Cdpn $\mu$ Ci         Sample Count Time: $\mu$ UILL       Activity Report In:       Cdpn $\mu$ Ci         a Background: $\underline{C}$ pm $\beta$ Y Background: $\underline{Q}$ $\underline{C}$ pm         SAMPLE ID OR DESCRIPTION       GROSS COUNTS a $\beta$ Y       NET COUNTS a $\beta$ Y       Activity a $\beta$ Y	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQCUTT COUNTING SYSTEM DATA DETECTOR ID: UTOCTORSTOR MDA: a SCOLA BY SCUL MDA: a CALARUL BY SCUL Sample Count Time: THUL Activity Report In: Qdpm - D pCia Background: QC - CpmSAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activitya \beta Y a \beta COUNTS ACTIVITY A CT COUNTS ACTIVITY A COUNTS ACTIVITY A COUNTS ACTIVITY A CT COUNTS ACTIVITY A COUNTS ACTIVITY A COUNTS ACTIVITY A CT COUNTS ACTIVITY A COUNTS ACTIVITY A COUNTS ACTIVITY A CT COUNTS ACTIVITY A COUNTS ACTIVITY A COUNTS ACTIVITY A CT COUNTS ACTIVITY A COUNTS ACTIVITY A COUNTS ACTIVITY A CT COUNTS ACTIVITY A COUNTS ACTIVITY A COUNTS ACTIVITY A CT COUNTS ACTIVITY A COUNTS ACTIVITY A COUNTS A CTIVITY A CT COUNTS ACTIVITY A COUNTS ACTIVITY A COUNTS A CTIVITY A CT COUNTS A CTIVITY A COUNTS A CTIVITY A CT COUNTS A CTIVITY A COUNTS A CTIVITY A CT COUNTS A CTIVITY A COUNTS A CTIVITY A CT COUNTS A CTIVITY A CTIVITY A COUNTS A CTIVITY A CT COUNTS A CTIVITY A CTIVITY A CTIVITY A CTIVITY A CT COUNTS A CTIVITY A CTIVITY A CTIVITY A CTIVITY A CT COUNTS A CTIVITY A$	INSTRUMENT ID:       QQCUTS       DETECTOR ID:       UIX_1_CO_1/QQSTA         EFICIENCIES: $a$ SCOLA $\beta Y$ SCOLA         MDA: $a$ COMMUNA $\beta Y$ SCOLA $\beta Y$ SCOLA         Sample Count Time: $A$ <	Analysis Performed by: $\sum_{n=0}^{\infty}$ COUNTING SYSTEM DATA         INSTRUMENT ID: $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ))         DETECTOR ID: $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ))         DETECTOR ID: $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ))         DETECTOR ID: $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ))         MDA:         DETECTOR ID: $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ))         Sample Count Time: $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ))         Sample Count Time: $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ))         Activity Report In: $\underline{C}$ ( $\underline{a}$ )         SAMPLE ID: OR 'DESCRIPTION       GROSS COUNTS NET COUNTS Activity $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ )) $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ )) $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ )) $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ ( $\underline{a}$ )) $\underline{a}$ ( $\underline$	SMEAR COUNTING ANALYSIS REPORT Date: $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5			
a Background:	PERFORMED BY:       Description       pylicid April         Sample Count Time:       Lun       Activity Report In: $\bigcirc dpm$ $\square pCi$ a Background: $_ Cpm$ $\bigcirc BY$ Background: $\bigcirc QQ$ $\bigcirc cpm$ SAMPLE ID:       OR:       DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a $\bigcirc Y$ a $\bigcirc Y$ a $\bigcirc Y$ a $\bigcirc Y$ a $\bigcirc BY$ a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQCUTTO COUNTING SYSTEM DATA DETECTOR ID: UTCO_1   OCSTA DETECTOR ID: UTCO_1   OCSTA DETECTOR ID: UTCO_1   OCSTA MDA: a SCOLAR MDA: a COM BY: ACTIVITY Report In: Qdpm B \mu CiSample Count Time: T use Activity Report In: Qdpm B \mu Cia Background: Q Cpm BY Background: QQ CpmSAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activitya \beta Y a \beta$	INSTRUMENT ID:       QQCUTS       DETECTOR ID:       QCUTORIST         EFICIENCIES: $a$ Scoin $\beta\gamma$ Scoin $\beta\gamma$ CONTING SYSTEM DATA         DETECTOR ID: $\Box$ <td>Date: 1-9-924       Analysis Performed by Social         COUNTING SYSTEM DATA         DETECTOR ID: 45-00-100830         Sample Count Time: 1 444         Activity Report In: 9 dpm D pCi         Actin 1 a</td> <td>SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by  COUNTING SYSTEM DATA DETECTOR ID:  <math>Analysis Performed by  COUNTING SYSTEM DATA DETECTOR ID:  <math>Analysis Performed by  Performed by  DETECTOR ID:  <math>Analysis Performed by  Performed by  DETECTOR ID:  $Analysis Performed by  Performed b$</math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>5</td> <td></td> <td></td>	Date: 1-9-924       Analysis Performed by Social         COUNTING SYSTEM DATA         DETECTOR ID: 45-00-100830         Sample Count Time: 1 444         Activity Report In: 9 dpm D pCi         Actin 1 a	SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by  COUNTING SYSTEM DATA DETECTOR ID: $Analysis Performed by  COUNTING SYSTEM DATA DETECTOR ID:  Analysis Performed by  Performed by  DETECTOR ID:  Analysis Performed by  Performed by  DETECTOR ID:  Analysis Performed by  Performed b$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background:       Cpm       Activity Report In:       Cdpm       D pCi         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $a$ $\beta Y$ $a$ $\beta Y$ $a$ $\beta Y$ $-12$ $Q$ $Q$ $-10$ $\Delta Retivity$ $-12$ $Q$ $Q$ $-10$ $\Delta Retivity$ $-12$ $Q$ $Q$ $Q$ $Q$ $Q$ $Q$ $-12$ $Q$ $Q$ $Q$ $Q$ $Q$ $Q$ $Q$ $-12$ $Q$ <td< td=""><td>PERFORMED BY:       Sample Count Time:       Activity Report In:       $\bigcirc dpm$ $\bigcirc pCi$         a Background:       $\bigcirc cpm$ $\bigcirc y$ Background:       $\bigcirc q$ $\bigcirc cpm$         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $a$ $\beta Y$ $a$ $a$ $a$ $a$ $a$ $a$ $a$ $a$ $a$ $a$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>INSTRUMENT ID: <math>QQCUTT COUNTING SYSTEM DATA DETECTOR ID: $UT(C-1)$ (OCSTA DETECTOR ID: $UT(C-1)$ (OCSTA MDA: <math>a \subseteq COINT Ime: A COUNT S = ACTIVITY Report In: $Qdpm = pCi$ a Eackground: Cpm = BY Eackground: QQ cpm SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity a = BY = a = BY = BY</math></math></td><td>INSTRUMENT ID:       QQCUSS       DETECTOR ID:       QCUSSCOUNTING SYSTEM DATA         EFICIENCIES:       $a$       Scoin       $\beta\gamma$       RQCUSSCOUNTS       DETECTOR ID:       QCOSCOUNTS         Sample Count Time:       Q       Q       $\beta\gamma$       Report In:       Qdpm       $\mu$Ci         a       Background:       $\Delta$       Q       $cpm$ $\beta\gamma$ $activity$ $activity$         a       Background:       $\Delta$ $cpm$ $\beta\gamma$ $a$ $\beta\gamma$ $a$         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $A$ $O$ $Qq$ $\alpha$ $\beta$ $A$ $O$ $Qq$ $\alpha$ $\beta$ $A$ $O$ $Qq$ $Q$ $$ $$ $$ $A$ $Q$ $$ $Q$ $$ $$ $$ $$ $A$ $Q$ $$ $$ $$ $$ $$ $$ $A$ $Q$ $$ $$ $$ $$ $$</td><td>Date: 1-9-921       Analysis Performed by: 5-9-9-9         COUNTING SYSTEM DATA         DETECTOR ID: 47-10-1008300         INSTRUMENT ID: 9000000000000000000000000000000000000</td><td>SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by  COUNTING SYSTEM DATA DETECTOR ID:  <math>ATACLERCIES: a SCOLA MDA: a SCOLA MDA: a ACTIVITY Report In:  <math>ACTIVITY Report In:  COUNTS SAMPLE ID OR DESCRIPTION GROSS COUNTS ACTIVITY a BY a C pr SAMPLE ID OR DESCRIPTION GROSS COUNTS ACTIVITY A BY A C P <math>ACTIVITY = ACTIVITY REPORT IN:  <math>ACTIVITY = ACTIVITY REPORT IN:  $ACTIVITY = ACTIVITY REPORT IN:  COUNTS ACTIVITY A C P ACTIVITY A BY A BY A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P$</math></math></math></math></td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>5</td><td></td><td></td></td<>	PERFORMED BY:       Sample Count Time:       Activity Report In: $\bigcirc dpm$ $\bigcirc pCi$ a Background: $\bigcirc cpm$ $\bigcirc y$ Background: $\bigcirc q$ $\bigcirc cpm$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $a$ $\beta Y$ $a$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQCUTT COUNTING SYSTEM DATA DETECTOR ID: UT(C-1) (OCSTADETECTOR ID: UT(C-1) (OCSTAMDA:a \subseteq COINT Ime: A COUNT S = ACTIVITY Report In: Qdpm = pCia Eackground: Cpm = BY Eackground: QQ cpmSAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activitya = BY = a = BY = BY$	INSTRUMENT ID:       QQCUSS       DETECTOR ID:       QCUSSCOUNTING SYSTEM DATA         EFICIENCIES: $a$ Scoin $\beta\gamma$ RQCUSSCOUNTS       DETECTOR ID:       QCOSCOUNTS         Sample Count Time:       Q       Q $\beta\gamma$ Report In:       Qdpm $\mu$ Ci         a       Background: $\Delta$ Q $cpm$ $\beta\gamma$ $activity$ $activity$ a       Background: $\Delta$ $cpm$ $\beta\gamma$ $a$ $\beta\gamma$ $a$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $A$ $O$ $Qq$ $  \alpha$ $\beta$ $A$ $O$ $Qq$ $  \alpha$ $\beta$ $A$ $O$ $Qq$ $ Q$ $$ $$ $$ $A$ $Q$ $$ $Q$ $$ $$ $$ $$ $A$ $Q$ $$ $$ $$ $$ $$ $$ $A$ $Q$ $$ $$ $$ $$ $$	Date: 1-9-921       Analysis Performed by: 5-9-9-9         COUNTING SYSTEM DATA         DETECTOR ID: 47-10-1008300         INSTRUMENT ID: 9000000000000000000000000000000000000	SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by  COUNTING SYSTEM DATA DETECTOR ID: $ATACLERCIES: a SCOLA MDA: a SCOLA MDA: a ACTIVITY Report In:  ACTIVITY Report In:  COUNTS SAMPLE ID OR DESCRIPTION GROSS COUNTS ACTIVITY a BY a C pr SAMPLE ID OR DESCRIPTION GROSS COUNTS ACTIVITY A BY A C P ACTIVITY = ACTIVITY REPORT IN:  ACTIVITY = ACTIVITY REPORT IN:  ACTIVITY = ACTIVITY REPORT IN:  COUNTS ACTIVITY A C P ACTIVITY A BY A BY A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P A C P$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background:	PERFORMED BY:       Activity Report In: $\Box$ dpm $\Box$ pCi         Sample Count Time: $u$ Activity Report In: $\Box$ dpm $\Box$ pCi         a Background: $\Box$ cpm $\beta$ Y Background: $\Box$ Q $c$ pm         SAMPLE ID:       OR:       DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a $\beta$ Y       a $\beta$ Y       a $\beta$ Y       a $\beta$ Y          O $\Box$ Q $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ <	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQCUTTO COUNTING SYSTEM DATA DETECTOR ID: UTCO_1   OCSTA DETECTOR ID: UTCO_1   OCSTA DETECTOR ID: UTCO_1   OCSTA MDA: a SCOLAR MDA: a COM BY: ACTIVITY Report In: Qdpm B \mu CiSample Count Time: T use Activity Report In: Qdpm B \mu Cia Background: Q Cpm BY Background: QQ CpmSAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activitya \beta Y a \beta$	INSTRUMENT ID:       QQCUTS       DETECTOR ID:       QCUTORIS         EFICIENCIES: $a$ Score $\beta$ CQCUTS       DETECTOR ID:       QCUTORIS         MDA: $a$ $\beta$ $\beta$ $\beta$ $\beta$ $\beta$ $\beta$ Sample Count Time: $d$ $\beta$ $\beta$ $\beta$ $\beta$ $\beta$ $\beta$ Sample Count Time: $d$ $\beta$ $\beta$ $\beta$ $\beta$ $\beta$ $\beta$ Sample Count Time: $d$ $\beta$ $\beta$ $\beta$ $\beta$ $\beta$ Sample Count: $\alpha$ $\beta$ $\beta$ $\beta$ $\beta$ $\beta$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS $A$ $\beta$ $\alpha$ $\beta$ $-12$ $2$ $Q$ $-1$ $\alpha$ $\beta$ $\alpha$ $\beta$ $-12$ $Q$ <t< td=""><td>Date: 1-9-921       Analysis Performed by: 5-9-10-10         COUNTING SYSTEM DATA         DETECTOR ID: 47-10-100730         INSTRUMENT ID: 90-10-100730         DETECTOR ID: 47-10-100730         MDA: a SQUE         BY 1800         BY 1800         SAMPLE DBY: a Superior In: 90 pci         SAMPLE ID: OR DESCRIPTION         GROSS COUNTS       NET COUNTS         Activity Report In: 90 pci         a Background: 90 pci         a Background: 90 pci         a Background: 90 pci         Count Time: 1 use. Activity Report In: 90 pci         a Background: 90 pci         a By a BY</td><td>SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by  COUNTING SYSTEM DATA DETECTOR ID:  <math>Analysis Performed by  COUNTING SYSTEM DATA DETECTOR ID:  <math>Analysis Performed by  Sample Count Time:  <math>Analysis Performed by  DETECTOR ID:  $Analysis Performed by  DETECTOR I$</math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>5</td><td></td><td></td></t<>	Date: 1-9-921       Analysis Performed by: 5-9-10-10         COUNTING SYSTEM DATA         DETECTOR ID: 47-10-100730         INSTRUMENT ID: 90-10-100730         DETECTOR ID: 47-10-100730         MDA: a SQUE         BY 1800         BY 1800         SAMPLE DBY: a Superior In: 90 pci         SAMPLE ID: OR DESCRIPTION         GROSS COUNTS       NET COUNTS         Activity Report In: 90 pci         a Background: 90 pci         a Background: 90 pci         a Background: 90 pci         Count Time: 1 use. Activity Report In: 90 pci         a Background: 90 pci         a By	SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by  COUNTING SYSTEM DATA DETECTOR ID: $Analysis Performed by  COUNTING SYSTEM DATA DETECTOR ID:  Analysis Performed by  Sample Count Time:  Analysis Performed by  DETECTOR ID:  Analysis Performed by  DETECTOR I$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background: $\square$ Cpm $\beta\gamma$ Background: $\square$ $\square$ $\square$ $\square$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a $\beta\gamma$ a $\beta\gamma$ a $\beta\gamma$ a $\beta$ $\square$	PERFORMED BY:       Description       PYICALABLE         Sample Count Time:       1       1       Activity Report In: $Qdpm$ $pCi$ a Background:	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQ_{CU}$ EFICIENCIES: $a \leq Cai $ $\beta \leq Sai$ MDA: a = A + A = A + A + A + A + A + A + A + A	INSTRUMENT ID: QQ CUTT EFICIENCIES: a SCale BY SQL MDA: a HAPLU BY SQL Sample Count Time: A usu Activity Report In: Q dpm D pCi a Background: Cpm BY Background: QQ cpm SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity a BY a BY a BY a BY a BY a BY a BY A O QQ - $_{vS}$ - 10 $\leq$ W DA A O QQ - $_{vS}$ - 10 $\leq$ W DA A O QQ - $_{vS}$ - 10 $\leq$ W DA C O O O O - $_{vS}$ - 10 $\leq$ W DA C O O O O - $_{vS}$ - 10 $\leq$ W DA C O O O O - $_{vS}$ - 10 $\leq$ W DA C O O O O - $_{vS}$ - 10 $\leq$ W DA C O O O O - $_{vS}$ - 10 $\leq$ W DA C O O O O - $_{vS}$ - 10 $\leq$ W DA C O O O O - $_{vS}$ - 10 $\leq$ W DA C O O O O O O O O O O O O O O O O O O O	Date: $1 - S - Qt1$ Analysis Performed by $S - S - Qt$ COUNTING SYSTEM DATA         DETECTOR ID: $43 - 10 - 100876$ INSTRUMENT ID: $QC + 3$ DETECTOR ID: $43 - 10 - 100876$ DETECTOR ID: $43 - 10 - 100876$ MDA:         DETECTOR ID: $43 - 10 - 100876$ MDA:         DETECTOR ID: $43 - 10 - 100876$ MDA:         Sample Count Time: $1000876$ Sample Count Time: $1000876$ Sample Count Time: $1000876$ SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS         A grade $37$ $3 - 0000$ QROSS COUNTS         NET COUNTS       Activity $3 - 0000$ QROSS COUNTS       NET COUNTS         A grade $39$ QROSS COUNTS       NET COUNTS         A grade $39$ QROSS COUNTS       QROSS COUNTS $1 - 10000$ QROSS COUNTS $1 - 10000000000000000000000000000000000$	SMEAR COUNTING ANALYSIS REPORT Date: 1 = 3 = 2 INSTRUMENT ID: 2 = 2 = 2 2 = 2 = 2 2 = 2 = 2 = 2 = 2 = 2 2 = 2 = 2 = 2 = 2 = 2 = 2 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 =	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background: $\underline{\ }$ Cpm $\beta\gamma$ Background: $\underline{\ }$ QQ $cpm$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a $\beta\gamma$ a $\beta\gamma$ a $\beta\gamma$ $2$ $2$ $2$ $-10$ $2$ $2$ $3$ $0$ $2$ $-10$ $2$ $2$ $3$ $0$ $2$ $-10$ $2$ $2$ $3$ $0$ $102$ $-8$ $3$ $2$ $3$ $0$ $102$ $-8$ $3$ $2$ $4$ $2$ $2$ $2$ $-1$ $2$ $2$ $4$ $2$ $2$ $2$ $-1$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $2$ $3$ $3$ $3$ $3$	PERFORMED BY:       Description       PYICALABLE         Sample Count Time:       1       1       Activity Report In: $Qdpm$ $pCi$ a Background:	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQCUTTO COUNTING SYSTEM DATA EFICIENCIES: a Scale BY SCAL MDA: a Scale BY SCAL Sample Count Time: \Delta use Activity Report In: Qdpm \Box \muCia Background: \underline{Q} cpm BY Background: \underline{QQ} cpmSAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activitya BY a BY a BY a BY a BY a BY a BY\Delta QQ = \frac{1}{2} QQ = 1$	INSTRUMENT ID: QQ CUTT EFICIENCIES: a SCale BY SQL MDA: a A ADU BY SQL Sample Count Time: A usu Activity Report In: Q dpm D $\mu$ Ci a Background: C D BY ACTIVITY Report In: Q dpm D $\mu$ Ci a Background: Q Cpm BY Background: QQ cpm SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity a BY a BY a BY a BY a BY a BY A D QQ - $_{v}$ S - 10 $\leq$ $w$ DATA DETECTOR ID: $M$ Ci Activity Report In: Q dpm D $\mu$ Ci Activity Activity Report In: Q dpm D $\mu$ Ci A D QQ - $_{v}$ S - 10 $\leq$ $w$ DATA DETECTOR ID: $M$ Ci Activity Report In: Q dpm D $\mu$ Ci Activity Activity Activity Activity Activity A D Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA DETECTOR ID: $M$ Ci Activity Report In: Q dpm D $\mu$ Ci Activity Activity Activity Activity Activity A D Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D D Q Q Q - $_{v}$ S - 10 $\leq$ $w$ DATA A D D Q Q - $_{v}$ S - 10 $w$ D D D D D D D D D D D D D D D D D D D	Date: $1 - S - Qt1$ Analysis Performed by $S - S - Qt2$ COUNTING SYSTEM DATA         DETECTOR ID: $4 - 3 - 10 - 10 - 08 - 30$ INSTRUMENT ID: $Qd - Qt3$ DETECTOR ID: $4 - 3 - 10 - 10 - 08 - 30$ DETECTOR ID: $4 - 3 - 10 - 10 - 08 - 30$ MDA:         a Count ime: $1 + 3 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - $	SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by: $S$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background:       Cpm       By Background:       QQ       cpm         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a $\beta Y$ a $\beta Y$ a $\beta Y$ -::Q       Q $-S R$ $-IO$ $\leq WDA$ $\omega$ -::Q       Q       Q $-S R$ $-IO$ $\leq WDA$ $\omega$ -::Q       Q       Q $-S R$ $-IO$ $\leq WDA$ $\omega$ -::Q       Q       Q $-S R$ $-IO$ $\leq WDA$ $\omega$ -::Q       Q       Q $-S R$ $-IO$ $\leq WDA$ $\omega$ -::Q       Q       Q $-S R$ $-IO$ $\leq WDA$ $\omega$ -::Q       Q       Q $IO R$ $-S R$ $= IO R$ $= IO R$ -::Q       Q $IO R$ $= IO R$ $= IO R$ $= IO R$ $= IO R$ -::Q       II R $= IO R$ <td>PERFORMED BY:       Description       Pyreculation         Sample Count Time:       Lun       Activity Report In: <math>\[mathbb{Q}\] dpm \[mathbb{D}\] pCi         a Background:       <math>\[mathbb{Q}\] dpm \[mathbb{C}\] dpm \[mathbb{D}\] pCi         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $a$ $\[mathbb{B}\] pY \[mathbb{a}\] a$ $\[mathbb{B}\] pY \[mathbb{a}\] a$ $\[mathbb{B}\] pY \[mathbb{a}\] a$ $\[mathbb{B}\] pY \[mathbb{a}\] a$ $\[mathbb{A}\] pY \[mathbb{a}\] a$ $\[mathbb{B}\] pY \[mathbb{a}\] a$ $\[mathbb{B}\] pY \[mathbb{a}\] a$ $\[mathbb{A}\] a$ $\[mathbb{A}\] pY \[mathbb{A}\] a$ $\[mathbb{A}\] a$ </math></math></td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>INSTRUMENT ID: $QQ_{CUT}$ EFICIENCIES: $a \leq CQ_{10}$ $\beta_V \leq Q_{10}$ MDA: $a \leq Q_{10}$ $\beta_V \leq Q_{10}$ DETECTOR ID: $Q \leq C_{10} \leq Q_{10}$ MDA: $a \leq Q_{10}$ $\beta_V \leq Q_{10}$ Sample Count Time: $Q_{10}$ $\beta_V \leq Q_{10}$ $a = Background: Q \leq Cpm$ $\beta_V Background: Q \leq Cpm$ SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity $a = \beta_V = a = \beta_V = a = \beta_V = a = \beta_V$ $A = Q \leq Q_{10} = -\delta = -$</td> <td>INSTRUMENT ID: $QQ_{QQ} = Q_{QQ} = Q_{$</td> <td>Date: $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$</td> <td>SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by:  COUNTING SYSTEM DATA DETECTOR ID:  $Activity Report In: Count of the count of t$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>5</td> <td></td> <td></td>	PERFORMED BY:       Description       Pyreculation         Sample Count Time:       Lun       Activity Report In: $\[mathbb{Q}\] dpm \[mathbb{D}\] pCi         a Background:       \[mathbb{Q}\] dpm \[mathbb{C}\] dpm \[mathbb{D}\] pCi         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a \[mathbb{B}\] pY \[mathbb{a}\] a \[mathbb{B}\] pY \[mathbb{a}\] a \[mathbb{B}\] pY \[mathbb{a}\] a \[mathbb{B}\] pY \[mathbb{a}\] a \[mathbb{A}\] pY \[mathbb{a}\] a \[mathbb{B}\] pY \[mathbb{a}\] a \[mathbb{B}\] pY \[mathbb{a}\] a \[mathbb{A}\] a \[mathbb{A}\] pY \[mathbb{A}\] a $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQ_{CUT}$ EFICIENCIES: $a \leq CQ_{10}$ $\beta_V \leq Q_{10}$ MDA: $a \leq Q_{10}$ $\beta_V \leq Q_{10}$ DETECTOR ID: $Q \leq C_{10} \leq Q_{10}$ MDA: $a \leq Q_{10}$ $\beta_V \leq Q_{10}$ Sample Count Time: $Q_{10}$ $\beta_V \leq Q_{10}$ $a = Background: Q \leq Cpm$ $\beta_V Background: Q \leq Cpm$ SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity $a = \beta_V = a = \beta_V = a = \beta_V = a = \beta_V$ $A = Q \leq Q_{10} = -\delta = -$	INSTRUMENT ID: $QQ_{QQ} = Q_{QQ} = Q_{$	Date: $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by:  COUNTING SYSTEM DATA DETECTOR ID: $Activity Report In: Count of the count of t$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background:       Cpm       Activity Report In: Cdpm       D pCi         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a $\beta Y$ a $\beta Y$ a $\beta Y$ a $\beta Y$	PERFORMED BY:       Activity Report In: $Q dpm \square \muCi$ Sample Count Time:       unit       Activity Report In: $Q dpm \square \muCi$ a Background:       a Cpm $\beta Y$ Background:       a Q       cpm         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a $\beta Y$ a $\beta Y$ a $\beta Y$ a $\beta Y$ O $CQ$ $-vR$ $-VO$ $\omega DA$ $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ O $CQ$ $-vR$ $-VO$ $\omega DA$ $\alpha$ $\beta Y$ $O$ $CQ$ $-vR$ $-VO$ $\omega DA$ $\omega$ $\beta Y$ $Q$ $Q$ $Q$ $Q$ $Q$ $Q$ $\omega$ $\omega$ $Q$ $Q$ $Q$ $Q$ $Q$ $\omega$ $\omega$ $\omega$ $Q$ $Q$ $Q$ $Q$ $\omega$ $\omega$ $\omega$ $Q$ $Q$ $Q$ $Q$ $Q$ $\omega$ $\omega$ $\omega$ $\omega$ <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>INSTRUMENT ID: $QQ_{CU}$ EFICIENCIES: $a \leq QQ_{i}$ $\beta \leq QQ_{i}$ MDA: $a \leq QQ_{i}$ $\beta \leq QQ_{i}$ PERFORMED BY: $Q_{i}$ $\beta \leq QQ_{i}$ Sample Count Time: $Q_{i}$ $Q_{i}$ <math>Activity Report In: Qdpm $\Box \mu Ci$ $a Eackground: \underline{Q} cpm$ $\beta \leq Background: \underline{QQ} cpm$ SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity $a \beta \leq Q$ $Q = Q \leq Q = Q \leq Q$ $Q = Q \leq Q$ $Q = Q \leq Q = Q \leq Q = Q \leq Q$ $Q = Q \leq Q = Q \leq Q = Q \leq Q$ $Q = Q \leq Q = Q \leq Q = Q \leq Q$ $Q = Q \leq Q = Q \leq Q = Q \leq Q$ $Q = Q \leq Q = Q \leq Q = Q \leq Q$ $Q = Q \leq Q = Q \leq Q = Q \leq Q = Q = Q \leq Q = Q =$</math></td> <td>INSTRUMENT ID: $QQOURS$ DURING SYSTEM DATA DETECTOR ID: $43 - 10 - 100$ $370$ MDA: $a = 10 + 100$ <math>BY + SCU PERFORMED BY: $A = 10 + 100$ $BY + SCU + 100$ Sample Count Time: $A = 0$ $BY + SCU + 100$ a = 10 + 100</math> <math>BY + SCU + 100 a = 10 + 100</math> <math>BY + SCU + 100 a = 10 + 100</math> <math>BY + SCU + 100 a = 10 + 100</math> <math>BY + SCU + 100 a = 100</math> $BY + 100$ $BY + 100$ <math>BY + 100 a = 100</math> $BY + 100$ $BY + 100$ <math>BY + 100 BY + 100</math> $BY + 100$ <math>BY + 100 BY + 100</math> <math>BY + 100 BY + 100</math> <math>BY + 100 BY + 1000 BY + 1000</math></td> <td>Analysis Performed by $\sum \sum \sum C$         COUNTING SYSTEM DATA         DETECTOR ID: $43 - 10 - 100370$         INSTRUMENT ID: $200 - 200$         DETECTOR ID: $43 - 10 - 100370$         DETECTOR ID: $43 - 10 - 100370$         MDA:       DETECTOR ID: $43 - 10 - 100370$         Sample Count Time:       Autom BY Sackground:       Q Com         Sample Count Time:       Autom BY Background:       Q Com         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         A       Q       Q       Q         A       Q       Q       Q         Sample Count Time:       Autom Counts       Activity         A       Q       Q       Q      <th< td=""><td>SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by Solution COUNTING SYSTEM DATA INSTRUMENT ID: QQCUTZ DETECTOR ID: $\Box_{3}$-$U_{1}$ (QQCUTZ MDA: DETECTOR ID: $\Box_{3}$-$U_{2}$ (QQCUTZ) MDA: $a$ (DATA PERFORMED BY: $a$ (DATA Sample Count Time: $\Delta$ $u_{M_{2}}$ Activity Report In: $Q$ dpm $\Box$ $\mu$Ci $a$ Background: $\underline{Q}$ cpm $\beta$Y Background: $\underline{Q}$ cpm SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity $a$ $\beta$Y $a$ $\beta$Y $a$ $\beta$Y $a$ $\beta$Y $a$ $\beta$ A $Q$ $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$ <math>A A</math> $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>5</td><td></td><td></td></th<></td>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQ_{CU}$ EFICIENCIES: $a \leq QQ_{i}$ $\beta \leq QQ_{i}$ MDA: $a \leq QQ_{i}$ $\beta \leq QQ_{i}$ PERFORMED BY: $Q_{i}$ $\beta \leq QQ_{i}$ Sample Count Time: $Q_{i}$ $Q_{i}$ $Activity Report In: Qdpm \Box \mu Cia Eackground: \underline{Q} cpm \beta \leq Background: \underline{QQ} cpmSAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activitya \beta \leq Q Q = Q \leq Q = Q \leq Q Q = Q \leq QQ = Q \leq Q = Q \leq Q = Q \leq QQ = Q \leq Q = Q \leq Q = Q \leq QQ = Q \leq Q = Q \leq Q = Q \leq QQ = Q \leq Q = Q \leq Q = Q \leq QQ = Q \leq Q = Q \leq Q = Q \leq QQ = Q \leq Q = Q \leq Q = Q \leq Q = Q = Q \leq Q = Q =$	INSTRUMENT ID: $QQOURS$ DURING SYSTEM DATA DETECTOR ID: $43 - 10 - 100$ $370$ MDA: $a = 10 + 100$ $BY + SCU PERFORMED BY: A = 10 + 100 BY + SCU + 100Sample Count Time: A = 0 BY + SCU + 100a = 10 + 100$ $BY + SCU + 100a = 10 + 100$ $BY + SCU + 100a = 10 + 100$ $BY + SCU + 100a = 10 + 100$ $BY + SCU + 100a = 100$ $BY + 100$ $BY + 100$ $BY + 100a = 100$ $BY + 100$ $BY + 100$ $BY + 100BY + 100$ $BY + 100$ $BY + 100BY + 100$ $BY + 100BY + 100$ $BY + 100BY + 1000BY + 1000$	Analysis Performed by $\sum \sum \sum C$ COUNTING SYSTEM DATA         DETECTOR ID: $43 - 10 - 100370$ INSTRUMENT ID: $200 - 200$ DETECTOR ID: $43 - 10 - 100370$ DETECTOR ID: $43 - 10 - 100370$ MDA:       DETECTOR ID: $43 - 10 - 100370$ Sample Count Time:       Autom BY Sackground:       Q Com         Sample Count Time:       Autom BY Background:       Q Com         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         A       Q       Q       Q         A       Q       Q       Q         Sample Count Time:       Autom Counts       Activity         A       Q       Q       Q <th< td=""><td>SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by Solution COUNTING SYSTEM DATA INSTRUMENT ID: QQCUTZ DETECTOR ID: $\Box_{3}$-$U_{1}$ (QQCUTZ MDA: DETECTOR ID: $\Box_{3}$-$U_{2}$ (QQCUTZ) MDA: $a$ (DATA PERFORMED BY: $a$ (DATA Sample Count Time: $\Delta$ $u_{M_{2}}$ Activity Report In: $Q$ dpm $\Box$ $\mu$Ci $a$ Background: $\underline{Q}$ cpm $\beta$Y Background: $\underline{Q}$ cpm SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity $a$ $\beta$Y $a$ $\beta$Y $a$ $\beta$Y $a$ $\beta$Y $a$ $\beta$ A $Q$ $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$ <math>A A</math> $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>5</td><td></td><td></td></th<>	SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by Solution COUNTING SYSTEM DATA INSTRUMENT ID: QQCUTZ DETECTOR ID: $\Box_{3}$ - $U_{1}$ (QQCUTZ MDA: DETECTOR ID: $\Box_{3}$ - $U_{2}$ (QQCUTZ) MDA: $a$ (DATA PERFORMED BY: $a$ (DATA Sample Count Time: $\Delta$ $u_{M_{2}}$ Activity Report In: $Q$ dpm $\Box$ $\mu$ Ci $a$ Background: $\underline{Q}$ cpm $\beta$ Y Background: $\underline{Q}$ cpm SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity $a$ $\beta$ Y $a$ $\beta$ Y $a$ $\beta$ Y $a$ $\beta$ Y $a$ $\beta$ A $Q$ $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$ $AA$ $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background: $\square$ Cpm $\beta\gamma$ Background: $\square$ $\square$ $\square$ $\square$ $\square$ SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a $\beta\gamma$ a $\beta\gamma$ a $\beta\gamma$ $\square$ </td <td>PERFORMED BY:       Discrete and the answer and the answere answer and the answer and the answer and</td> <td>MDA:       a       Allow       By Iscalar         Sample Count Time:       $um$       Activity Report In: $Qdpm \Box pCi$         a Background:       $\underline{A}$ cpm       $\underline{By}$ Background:       $\underline{AQ}$ cpm         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $a$ $\underline{By}$ $a$ $\underline{By}$ $\underline{A}$ $\underline{By}$ $\underline{A}$ $a$ $\underline{By}$ $a$ $\underline{By}$ $a$ $\underline{By}$ $\underline{A}$ $\underline{By}$ $\underline{By}$ $\underline{By}$ $\underline{By}$ $\underline{By}$ $\underline{By}$ $\underline{By}$ $\underline$</td> <td>INSTRUMENT ID: $QQ_{CV+2}$ COUNTING SYSTEM DATA DETECTOR ID: $U_{13}$-(C-1) QQS 32 DETECTOR ID: $U_{13}$-(C-1) QQS 32 MDA: PERFORMED BY: Sample Count Time: A Livity Report In: $Qdpm \square \muCi$ a Background: Q = Q + Q + Q + Q + Q + Q + Q + Q + Q +</td> <td>INSTRUMENT ID: $QQ_{C}$ COUNTING SYSTEM DATA DETECTOR ID: $U_{3}$-10-1109533 EFICIENCIES: a SCOLD BY QQ_ MDA: a VALUE BY QQ_ PERFORMED BY: A CIVITY Report In: Qdpm D $\mu$Ci a Background: $\underline{-Q}$ cpm BY Background: $\underline{-QQ}$ cpm SAMPLE ID: OR DESCRIPTION GROSS COUNTS NET COUNTS Activity a $\beta$Y a $\beta$Y a</td> <td>Analysis Performed by $S_{2}$ or or other countries of the second dependence of the second dependence</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>5</td> <td></td> <td></td>	PERFORMED BY:       Discrete and the answer and the answere answer and the answer and the answer and	MDA:       a       Allow       By Iscalar         Sample Count Time: $um$ Activity Report In: $Qdpm \Box pCi$ a Background: $\underline{A}$ cpm $\underline{By}$ Background: $\underline{AQ}$ cpm         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $a$ $\underline{By}$ $a$ $\underline{By}$ $\underline{A}$ $\underline{By}$ $\underline{A}$ $a$ $\underline{By}$ $a$ $\underline{By}$ $a$ $\underline{By}$ $\underline{A}$ $\underline{By}$ $\underline{By}$ $\underline{By}$ $\underline{By}$ $\underline{By}$ $\underline{By}$ $\underline{By}$ $\underline$	INSTRUMENT ID: $QQ_{CV+2}$ COUNTING SYSTEM DATA DETECTOR ID: $U_{13}$ -(C-1) QQS 32 DETECTOR ID: $U_{13}$ -(C-1) QQS 32 MDA: PERFORMED BY: Sample Count Time: A Livity Report In: $Qdpm \square \muCi$ a Background: Q = Q + Q + Q + Q + Q + Q + Q + Q + Q +	INSTRUMENT ID: $QQ_{C}$ COUNTING SYSTEM DATA DETECTOR ID: $U_{3}$ -10-1109533 EFICIENCIES: a SCOLD BY QQ_ MDA: a VALUE BY QQ_ PERFORMED BY: A CIVITY Report In: Qdpm D $\mu$ Ci a Background: $\underline{-Q}$ cpm BY Background: $\underline{-QQ}$ cpm SAMPLE ID: OR DESCRIPTION GROSS COUNTS NET COUNTS Activity a $\beta$ Y a	Analysis Performed by $S_{2}$ or or other countries of the second dependence	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
$\alpha$ Background: $\Box$ cpm $\beta$ Y Background: $\underline{q}$ $\alpha$ cpm         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta$ Y $\alpha$ $\gamma$ $\gamma$ $\gamma$ $\gamma$ $\gamma$ $\gamma$ $\alpha$ $\gamma$	PERFORMED BY:       Description       PYIGGADA         Sample Count Time:       Lune       Activity Report In:       Odpm       D pCi $a$ Background:	MDA: $a$ $A$ $\beta\gamma$ $\alpha$ $\beta\gamma$ $\alpha$ $\beta \gamma$ $\alpha$ <t< td=""><td>INSTRUMENT ID:       $QQ_{CV}$       Detector Data         EFICIENCIES:       $a$ $S_{CV}$ $BY$ $QQ_{CV}$         MDA:       $a$ $A$ $BY$ $QQ_{CV}$         PERFORMED BY:       $a$ $A$ $BY$ $Report In: Qdpm - D \muCi$         a Background:       $a$ $A$ $A$ $Cpm$ $BY$ $Background: -Q$ $Qpm$         Sample Count Time:       $VIIIIN$       Activity Report In:       $Qdpm - D$ $PCi$         a Background:       $a$ $BY$ $a$ $BY$ $a$ $BY$         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $A$ $Q$ $Q$ $Q$ $Q$ $Q$ $A$ $Q$ $Q$ $Q$ $Q$ $Q$ $Q$ $A$ $Q$ $Q$</td><td>INSTRUMENT ID:       $a$ $a$</td><td>Date: Analysis Performed by: $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$</td><td>And yess report         Date:</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>5</td><td></td><td></td></t<>	INSTRUMENT ID: $QQ_{CV}$ Detector Data         EFICIENCIES: $a$ $S_{CV}$ $BY$ $QQ_{CV}$ MDA: $a$ $A$ $BY$ $QQ_{CV}$ PERFORMED BY: $a$ $A$ $BY$ $Report In: Qdpm - D \muCi$ a Background: $a$ $A$ $A$ $Cpm$ $BY$ $Background: -Q$ $Qpm$ Sample Count Time: $VIIIIN$ Activity Report In: $Qdpm - D$ $PCi$ a Background: $a$ $BY$ $a$ $BY$ $a$ $BY$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $A$ $Q$ $Q$ $Q$ $Q$ $Q$ $A$ $Q$ $Q$ $Q$ $Q$ $Q$ $Q$ $A$ $Q$ $Q$	INSTRUMENT ID: $a$	Date: Analysis Performed by: $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	And yess report         Date:	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background: $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	PERFORMED BY:       Description       pyled Abut         Sample Count Time:       units       Activity Report In:       dpm       pci         a Background:       Gen       By Background:       Gen       pci         SAMPLE ID: OR 'DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a       BY       a       BY       a       BY       a       BY         a       BY       a       BY       a       BY       a       BY       a       BY       a       BY       a       B         SAMPLE ID: OR 'DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity       a       BY       a       BY       a       B         a       O       QQ       -vg       -vg       -vg       -vg       Activity         a       BY       a       BY       a       BY       a       B       Curve       B       Curve       B       Curve       B       Curve       Curve       B       Curve       Curve       B       Curve       B       Curve       Curve       B       Curve       Curve       Curve       Curve       Curve       Curve       Curve       Curve       Curve <th< td=""><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>INSTRUMENT ID:       $a = 0$ $\beta \vee 1$ $Data$         EFICIENCIES:       $a = 5$ $\beta \vee 1$ <math>Court       $Detector ID: \Box = 1$ $Court = 10$         MDA:       $a = 1$ $\beta \vee 1$ $\beta \vee 1$ $\beta \vee 1$ $Detector ID: \Box = 10$ $\Box = 10$         MDA:       $a = 1$ $a = 1$ $\beta \vee 1$ $\beta \vee 1$ $\beta \vee 1$ $\Box = 10$ $\Box = 10$         Sample Count Time:       $u = 1$ $Activity Report In: \nabla dpm = pci$ $a = 10$ $cpm$ $a = ackground: = 1$ $a = 1$ $a = 10$ $\beta \vee a = 10$ $cpm$ $a = ackground: = 1$ $a = 1$ $\beta \vee a = 10$ $\beta \vee a = 10$ $cpm$         SAMPLE ID: OR DESCRIPTION       $GROSS COUNTS$ $NET COUNTS$ $Activity = 0$ $a = 10$ </math></td><td>INSTRUMENT ID:       $a \bigcirc b \lor g \oslash b$ $b \lor g \oslash b$ $Data$         EFICIENCIES:       $a \boxdot c \oslash b$ $\beta \lor g \oslash b$ $b \lor g \oslash b$         MDA:       $a \bowtie b \lor b$ $a \lor b \lor b$ $b \lor g \oslash b$         PERFORMED BY:       $a \lor b \lor b$ $a \lor b \lor b$ $b \lor b \lor b$         Sample Count Time:       $u \lor b$ $A \land b \lor b$ $a \lor b \lor b$ $a \lor b \lor b$         Sample Count Time:       $u \lor b \lor b$ $A \land b \lor b$ $a \lor b \lor b$ $a \lor b \lor b$ $a \lor b \lor b$         Sample Count Time:       $u \lor b \lor b$ $A \land b \lor b$ $A \land b \lor b$ $a \lor b \lor b$ $a \lor b \lor b$ $a \lor b \lor b$         Sample Count Time:       $u \lor b \lor b$ $A \land b \lor b$ $A \land b \lor b$ $a \lor b \lor b \lor b$ $a \lor b \lor b \lor b \lor b$ $a \lor b \lor b \lor b \lor b$ $a \lor b \lor b \lor b \lor b \lor b$ $a \lor b \lor b \lor b \lor b \lor b \lor b$ $a \lor b \lor b$ $a \lor b \lor$</td><td>Analysis Performed by: $\sum \sum a_{1}$         COUNTING SYSTEM DATA         DETECTOR ID: $43 - 40 - 40$         INSTRUMENT ID: $20 - 40 - 40$         INSTRUMENT ID: $20 - 40 - 40$         DETECTOR ID: $43 - 40 - 40$         DETECTOR ID: $43 - 40 - 40$         DETECTOR ID: $43 - 40 - 40$         Market by: $30 - 40 - 40$         Sample Count Time: $40 - 40 - 40$         Sample Count Time: $40 - 40 - 40$         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         A $gY$       a $gY$       B $gY$       C $g$       COUNTS       NET COUNTS       Activity         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         A $gY$       A $gY$       A $gY$       C $gY$       C $gY$         C $100 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -$</td><td>Allos #////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>5</td><td></td><td></td></th<>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $a = 0$ $\beta \vee 1$ $Data$ EFICIENCIES: $a = 5$ $\beta \vee 1$ $Court       Detector ID: \Box = 1 Court = 10         MDA:       a = 1 \beta \vee 1 \beta \vee 1 \beta \vee 1 Detector ID: \Box = 10 \Box = 10         MDA:       a = 1 a = 1 \beta \vee 1 \beta \vee 1 \beta \vee 1 \Box = 10 \Box = 10         Sample Count Time:       u = 1 Activity Report In: \nabla dpm = pci a = 10 cpm a = ackground: = 1 a = 1 a = 10 \beta \vee a = 10 cpm a = ackground: = 1 a = 1 \beta \vee a = 10 \beta \vee a = 10 cpm         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS NET COUNTS Activity = 0 a = 10 $	INSTRUMENT ID: $a \bigcirc b \lor g \oslash b$ $b \lor g \oslash b$ $Data$ EFICIENCIES: $a \boxdot c \oslash b$ $\beta \lor g \oslash b$ $b \lor g \oslash b$ MDA: $a \bowtie b \lor b$ $a \lor b \lor b$ $b \lor g \oslash b$ PERFORMED BY: $a \lor b \lor b$ $a \lor b \lor b$ $b \lor b \lor b$ Sample Count Time: $u \lor b$ $A \land b \lor b$ $a \lor b \lor b$ $a \lor b \lor b$ Sample Count Time: $u \lor b \lor b$ $A \land b \lor b$ $a \lor b \lor b$ $a \lor b \lor b$ $a \lor b \lor b$ Sample Count Time: $u \lor b \lor b$ $A \land b \lor b$ $A \land b \lor b$ $a \lor b \lor b$ $a \lor b \lor b$ $a \lor b \lor b$ Sample Count Time: $u \lor b \lor b$ $A \land b \lor b$ $A \land b \lor b$ $a \lor b \lor b \lor b$ $a \lor b \lor b \lor b \lor b$ $a \lor b \lor b \lor b \lor b$ $a \lor b \lor b \lor b \lor b \lor b$ $a \lor b \lor b \lor b \lor b \lor b \lor b$ $a \lor b \lor b$ $a \lor b \lor $	Analysis Performed by: $\sum \sum a_{1}$ COUNTING SYSTEM DATA         DETECTOR ID: $43 - 40 - 40$ INSTRUMENT ID: $20 - 40 - 40$ INSTRUMENT ID: $20 - 40 - 40$ DETECTOR ID: $43 - 40 - 40$ DETECTOR ID: $43 - 40 - 40$ DETECTOR ID: $43 - 40 - 40$ Market by: $30 - 40 - 40$ Sample Count Time: $40 - 40 - 40$ Sample Count Time: $40 - 40 - 40$ SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         A $gY$ a $gY$ B $gY$ C $g$ COUNTS       NET COUNTS       Activity         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         A $gY$ A $gY$ A $gY$ C $gY$ C $gY$ C $100 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -$	Allos #////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5			
a Background: $\underline{\ G}$ $\underline{\ Cpm}$ $\underline{\ By Background:}$ $\underline{\ QQ}$ $\underline{\ Cpm}$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $a$ $\underline{\ By}$ $a$ $\underline{\ By}$ $a$ $\underline{\ By}$ $-\frac{1}{2}$ $0$ $\underline{\ QQ}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $0$ $\underline{\ QQ}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $0$ $\underline{\ QQ}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $-\frac{1}{2}$ $0$ $10$ $-\frac{1}{2}$ <td>PERFORMED BY:       Sample Count Time:       Activity Report In:       $\bigcirc dpm$ $pci$         a Background:       $a$ $\bigcirc cpm$ $\beta Y$ Background:       $\bigcirc qq$ $\bigcirc cpm$         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $a$ $\beta Y$ $a$ $\beta Y$ $a$ $\beta Y$ $a$ $a$ $\beta Y$ $a$ $b$ $a$</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>INSTRUMENT ID: $QQOUTS$ DUTING SYSTEM DATA EFICIENCIES: <math>a \leq COUNTING SYSTEM DATA DETECTOR ID: $43 \leq -10 \leq 100833$ MDA: $a \leq COUNT = \beta \leq COUNTS$ Sample Count Time: $Activity Report In: Cdpm \Box \muCi$ $a Background: \underline{Cpm}$ $\beta Y Background: \underline{QQ} cpm$ SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity $a \beta Y$ $a \beta Y$ $a \beta Y$ $a \beta Y$ $a \beta Y$ $a \beta Y$ $b Q Q = -S = 10 \leq MDA \leq M$ $c Q Q = -S = 10 \leq MDA \leq M$ $c Q Q = -S = 10 \leq MDA \leq M$ $c Q Q = -S = 10 \leq MDA \leq M$ $c Q Q = -S = 10 \leq MDA \leq M$ $c Q Q = -S = 10 \leq MDA \leq M$ $c Q Q = -S = 10 \leq MDA \leq M$ $c Q Q = -S = 10 \leq MDA \leq M$ $c Q Q = -S = 10 \leq MDA \leq M$ $c Q Q Q = -S = 10 \leq MDA \leq M$ $c Q Q Q = -S = 10 \leq MDA \leq M$ $c Q Q Q = -S = 10 \leq MDA \leq M$ $c Q Q Q = -S = 10 \leq MDA \leq M$ c Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q</math></td> <td>INSTRUMENT ID: $QQ_{CU}$       DETECTOR ID: $U_{CU}$         MDA:       DETECTOR ID: $U_{CU}$         MDA:       DETECTOR ID: $U_{CU}$         MDA:       DETECTOR ID: $U_{CU}$         Sample Count Time:       Activity Report In: $Qdpm$       DETECTOR         Sample Count Time:       Activity Report In: $Qdpm$       DETECTOR         Sample Count Time:       Activity Report In: $Qdpm$       DETECTOR         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         A       Q       Q         A       Q         Q       Q         A       Q         A       Q         A       Q         A       Q         A       <th colspan<="" td=""><td>Analysis Performed by: $\Box \subseteq \Box$         COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box$         INSTRUMENT ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         MDA:         $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         MDA:       $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box$ $\beta Y \equiv \Box \Box \Box \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box \Box$ $\Box \equiv \Box \subseteq \Box \Box \subseteq \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ <math>Activity Report In: \Box dpn \Box pCi         $\Box \equiv \Box \subseteq \Box \Box \Box \Box \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box \equiv \Box \Box \Box \Box \Box \Box \Box \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box = \Box \Box$ $\Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box = \Box \Box$</math></td><td>Ands #: A         SMEAR COUNTING ANALYSIS REPORT         Date: 1-9-94         Analysis Performed by: 50-0         COUNTING SYSTEM DATA         DETECTOR ID: 47-00-100830         INSTRUMENT ID: 9000000000000000000000000000000000000</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>5</td><td></td><td></td></th></td>	PERFORMED BY:       Sample Count Time:       Activity Report In: $\bigcirc dpm$ $pci$ a Background: $a$ $\bigcirc cpm$ $\beta Y$ Background: $\bigcirc qq$ $\bigcirc cpm$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $a$ $\beta Y$ $a$ $\beta Y$ $a$ $\beta Y$ $a$ $a$ $\beta Y$ $a$ $b$ $a$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQOUTS$ DUTING SYSTEM DATA EFICIENCIES: $a \leq COUNTING SYSTEM DATA DETECTOR ID: 43 \leq -10 \leq 100833MDA: a \leq COUNT = \beta \leq COUNTSSample Count Time: Activity Report In: Cdpm \Box \muCia Background: \underline{Cpm} \beta Y Background: \underline{QQ} cpmSAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activitya \beta Y a \beta Y a \beta Ya \beta Y a \beta Y a \beta Yb Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q Q = -S = 10 \leq MDA \leq Mc Q Q Q = -S = 10 \leq MDA \leq Mc Q Q Q = -S = 10 \leq MDA \leq Mc Q Q Q = -S = 10 \leq MDA \leq Mc Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q$	INSTRUMENT ID: $QQ_{CU}$ DETECTOR ID: $U_{CU}$ MDA:       DETECTOR ID: $U_{CU}$ MDA:       DETECTOR ID: $U_{CU}$ MDA:       DETECTOR ID: $U_{CU}$ Sample Count Time:       Activity Report In: $Qdpm$ DETECTOR         Sample Count Time:       Activity Report In: $Qdpm$ DETECTOR         Sample Count Time:       Activity Report In: $Qdpm$ DETECTOR         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         A       Q       Q         A       Q         Q       Q         A       Q         A       Q         A       Q         A       Q         A <th colspan<="" td=""><td>Analysis Performed by: $\Box \subseteq \Box$         COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box$         INSTRUMENT ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         MDA:         $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         MDA:       $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box$ $\beta Y \equiv \Box \Box \Box \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box \Box$ $\Box \equiv \Box \subseteq \Box \Box \subseteq \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ <math>Activity Report In: \Box dpn \Box pCi         $\Box \equiv \Box \subseteq \Box \Box \Box \Box \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box \equiv \Box \Box \Box \Box \Box \Box \Box \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box = \Box \Box$ $\Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box = \Box \Box$</math></td><td>Ands #: A         SMEAR COUNTING ANALYSIS REPORT         Date: 1-9-94         Analysis Performed by: 50-0         COUNTING SYSTEM DATA         DETECTOR ID: 47-00-100830         INSTRUMENT ID: 9000000000000000000000000000000000000</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>5</td><td></td><td></td></th>	<td>Analysis Performed by: $\Box \subseteq \Box$         COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box$         INSTRUMENT ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         MDA:         $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         MDA:       $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box$ $\beta Y \equiv \Box \Box \Box \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box \Box$ $\Box \equiv \Box \subseteq \Box \Box \subseteq \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ <math>Activity Report In: \Box dpn \Box pCi         $\Box \equiv \Box \subseteq \Box \Box \Box \Box \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box \equiv \Box \Box \Box \Box \Box \Box \Box \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box = \Box \Box$ $\Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box = \Box \Box$</math></td> <td>Ands #: A         SMEAR COUNTING ANALYSIS REPORT         Date: 1-9-94         Analysis Performed by: 50-0         COUNTING SYSTEM DATA         DETECTOR ID: 47-00-100830         INSTRUMENT ID: 9000000000000000000000000000000000000</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>5</td> <td></td> <td></td>	Analysis Performed by: $\Box \subseteq \Box$ COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box$ INSTRUMENT ID: $\Box \subseteq \Box \subseteq \Box$ DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$ DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$ MDA: $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$ MDA: $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$ Sample Count Time: $\Box \sqcup \Box \subseteq \Box$ $\beta Y \equiv \Box \Box \Box \Box$ Sample Count Time: $\Box \sqcup \Box \subseteq \Box \Box$ $\Box \equiv \Box \subseteq \Box \Box \subseteq \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi         \Box \equiv \Box \subseteq \Box Activity Report In: \Box dpn \Box pCi \Box \equiv \Box Activity Report In: \Box dpn \Box pCi \Box = \Box Activity Report In: \Box dpn \Box pCi \Box = \Box \Box$	Ands #: A         SMEAR COUNTING ANALYSIS REPORT         Date: 1-9-94         Analysis Performed by: 50-0         COUNTING SYSTEM DATA         DETECTOR ID: 47-00-100830         INSTRUMENT ID: 9000000000000000000000000000000000000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5		
a Background: $\underline{\ G}$ $\underline{\ Cpm}$ $\underline{\ By Background: \underline{\ QQ \ cpm}}$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS a       NET COUNTS by a       Activity a $\underline{\ Activity}$ $\ Act$	PERFORMED BY:       Sample Count Time:       Activity Report In: $\bigcirc dpm$ $pci$ a Background: $_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQOUTS$ DUTING SYSTEM DATA EFICIENCIES: $a \leq COUNTING SYSTEM DATA DETECTOR ID: 43 \leq -10 \leq 100833MDA: a \leq COUNT = \beta \leq COUNTSSample Count Time: Activity Report In: Cdpm \Box \muCia Background: \underline{Cpm} \beta Y Background: \underline{QQ} cpmSAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activitya \beta Y a \beta Y a \beta Ya \beta Y a \beta Y a \beta Yb Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q = -S = 10 \leq MDA \leq Mc Q Q Q = -S = 10 \leq MDA \leq Mc Q Q Q = -S = 10 \leq MDA \leq Mc Q Q Q = -S = 10 \leq MDA \leq Mc Q Q Q = -S = 10 \leq MDA \leq Mc Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q$	INSTRUMENT ID: $QQ_{CU}$ DETECTOR ID: $U_{CU}$ MDA:       DETECTOR ID: $U_{CU}$ MDA:       DETECTOR ID: $U_{CU}$ MDA:       DETECTOR ID: $U_{CU}$ Sample Count Time:       Activity Report In: $Qdpm$ DETECTOR         Sample Count Time:       Activity Report In: $Qdpm$ DETECTOR         Sample Count Time:       Activity Report In: $Qdpm$ DETECTOR         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         A       Q       Q         A       Q         Q       Q         A       Q         A       Q         A       Q         A       Q         A <th colspan<="" td=""><td>Analysis Performed by: $\Box \subseteq \Box$         COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box$         INSTRUMENT ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         MDA:         $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         MDA:       $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box$ $\beta Y \equiv \Box \Box \Box \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box \Box$ $\Box \equiv \Box \subseteq \Box \Box \subseteq \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ <math>Activity Report In: \Box dpn \Box pCi         $\Box \equiv \Box \subseteq \Box \Box \Box \Box \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box \equiv \Box \Box \Box \Box \Box \Box \Box \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box = \Box \Box$ $\Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box = \Box \Box$</math></td><td>Ands #: A         SMEAR COUNTING ANALYSIS REPORT         Date: 1-9-94         Analysis Performed by: 50-0         COUNTING SYSTEM DATA         DETECTOR ID: 47-00-100830         INSTRUMENT ID: 9000000000000000000000000000000000000</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>5</td><td>vidte Te</td><td></td></th>	<td>Analysis Performed by: $\Box \subseteq \Box$         COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box$         INSTRUMENT ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         MDA:         $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         MDA:       $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box$ $\beta Y \equiv \Box \Box \Box \Box$         Sample Count Time:       $\Box \sqcup \Box \subseteq \Box \Box$ $\Box \equiv \Box \subseteq \Box \Box \subseteq \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ <math>Activity Report In: \Box dpn \Box pCi         $\Box \equiv \Box \subseteq \Box \Box \Box \Box \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box \equiv \Box \Box \Box \Box \Box \Box \Box \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box = \Box \Box$ $\Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi$ $\Box = \Box \Box$</math></td> <td>Ands #: A         SMEAR COUNTING ANALYSIS REPORT         Date: 1-9-94         Analysis Performed by: 50-0         COUNTING SYSTEM DATA         DETECTOR ID: 47-00-100830         INSTRUMENT ID: 9000000000000000000000000000000000000</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>5</td> <td>vidte Te</td> <td></td>	Analysis Performed by: $\Box \subseteq \Box$ COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box$ INSTRUMENT ID: $\Box \subseteq \Box \subseteq \Box$ DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$ DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$ MDA: $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$ MDA: $\Box \subseteq \Box \subseteq \Box \subseteq \Box$ $\beta Y \subseteq \Box \subseteq \Box$ Sample Count Time: $\Box \sqcup \Box \subseteq \Box$ $\beta Y \equiv \Box \Box \Box \Box$ Sample Count Time: $\Box \sqcup \Box \subseteq \Box \Box$ $\Box \equiv \Box \subseteq \Box \Box \subseteq \Box \Box$ $\Box \Box \Box \Box \Box \Box \Box$ $Activity Report In: \Box dpn \Box pCi         \Box \equiv \Box \subseteq \Box Activity Report In: \Box dpn \Box pCi \Box \equiv \Box Activity Report In: \Box dpn \Box pCi \Box = \Box Activity Report In: \Box dpn \Box pCi \Box = \Box \Box$	Ands #: A         SMEAR COUNTING ANALYSIS REPORT         Date: 1-9-94         Analysis Performed by: 50-0         COUNTING SYSTEM DATA         DETECTOR ID: 47-00-100830         INSTRUMENT ID: 9000000000000000000000000000000000000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5	vidte Te	
$\alpha$ Background: $\square$ Cpm $\beta \gamma$ Background: $\square$ $\square$ $\square$ $\square$ $\square$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $-1$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $-1$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $-1$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$	PERFORMED BY: $\square$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INSTRUMENT ID: $QQCUtZ$ DETECTOR ID: $UTT = 0$ EFICIENCIES: $a \leq Coirrightarrow BY = 0$ $Beterrow BY = 0$ $Beterrow BY = 0$ Sample Count Time: $uirrightarrow BY \leq Coirrightarrow BY \leq Coirrightarrow BY = 0$ $Activity Report In: V dpm = pci         Background:       QCutZ BY \leq Coirrightarrow BY \leq Coirrightarrow BY = 0 Beterrow BY = 0 Detector In: V dpm = pci         Sample Count Time:       uirrightarrow BY \leq Coirrightarrow BY = 0 BY = 0 Detector In: V dpm = pci         a Background: QC = 0 BY = 0 Detector In: V dpm = pci         a Background: QC = 0 QC = 0 QC = 0 Detector In: V dpm = pci         a BY = 0 BY = 0 BY = 0 Activity = 0 Activity = 0 A QS = 0 QS = 0 QS = 0 Activity = 0 Activity = 0 A QS = 0 QS = 0 QS = 0 Activity = 0 Activity = 0 A QS = 0 QS = 0 QS = 0 Activity = 0 Activity = 0 Activity = 0 Ac$	INSTRUMENT ID: $QQCUTZ$ COUNTING SYSTEM DATA DETECTOR ID: $UTZ - 10 - 1008330$ MDA: $\alpha$ $MATULL BY GQLC$ Sample Count Time: $UULL BY GQLC$ $\alpha$ Background: $QCUTZ$ $Cpm$ SAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activity $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ 1 - 100 CTQ - 08 - 100 CULA CULA $CTQ$ $QR$ $QR$ $QR$ $QR$ $QR$ $QR$ $QR$ $Q$	Date:       Analysis       Performed by:       Source         COUNTING SYSTEM DATA       DETECTOR ID: $\Box$ $\Box$ INSTRUMENT ID: $\Box$ $\Box$ $\Box$ $\Box$ EFICIENCIES: $a$ $\Box$ $\exists$ $\Box$ $\Box$ MDA: $a$ $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ PERFORMED BY: $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ Sample Count Time: $uux$ Activity Report In: $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ Sample Count Time: $uux$ Activity Report In: $\Box$	Ands #: $B$ SMEAR COUNTING ANALYSIS REPORT         Date: 1-S-q.t       Analysis Performed by Solate         COUNTING SYSTEM DATA         DETECTOR ID: $43 - 10 - 100333$ INSTRUMENT ID: $Qalows$ DATE: COUNTING SYSTEM DATA         DETECTOR ID: $43 - 10 - 100333$ MEAR COUNTING SYSTEM DATA         DETECTOR ID: $43 - 10 - 100333$ MEAR COUNTING SYSTEM DATA         DETECTOR ID: $43 - 10 - 100333$ MEAR COUNTING SYSTEM DATA         DETECTOR ID: $43 - 10 - 100333$ MEAR COUNTING SYSTEM DATA         DETECTOR ID: $43 - 10 - 100333$ MEAR COUNT STATE         Activity Report In: $Qam \Box \mu Ci$ Activity Report In: $Qam \Box \mu Ci$ Activity Report In: $Qam \Box \mu Ci$ A grad by a gra	$\frac{1}{5}$	5	2 die 12	· · · ·	
$\alpha$ Background: $\square$ Cpm $\beta \gamma$ Background: $\square$ $\square$ $\square$ $\square$ $\square$ SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $-1$ $0$ $\Box q$ $-1$ $\beta$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $-1$ $0$ $\Box q$ $-1$ $0$ $\Box q$ $-1$ $\alpha$ $\beta$ $-1$ $0$ $\Box q$ $-1$ $0$ $\Box q$ $-1$ $-1$ $-1$ $1$ $2$ $q$ $1$ $-1$ $-1$ $-1$ $-1$ $1$ $1$ $2$ $0$ $1$ $0$ $-1$ $-1$ $-1$ $1$ $1$ $1$ $1$ $0$ $-1$ $-1$ $-1$ $-1$ $-1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$	PERFORMED BY:       Description       pylotical pylotica	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	INSTRUMENT ID: $QQCUTZ$ DETECTOR ID: $UTING SYSTEM DATA$ EFICIENCIES: $a \leq CQi \beta$ BY $QQL$ MDA: $a \leq LAPULA$ BY $QQL$ PERFORMED BY: $A \leq LAPULA$ BY $QQL$ Sample Count Time: $L$ U.U. Activity Report In: $Qdpm \square \muCi$ a Background: Q Cpm BY Background: $QQ CpmSAMPLE ID OR DESCRIPTION GROSS COUNTS NET COUNTS Activitya \beta Y a \beta Y a \beta Y a \beta Y-iQ Q Q - S - IO \leq MDA \leq M-iQ Q Q Q - S - IO \leq MDA \leq M-iQ Q Q Q - S - IO \leq MDA \leq M$	INSTRUMENT ID: $QQCUTS$ Detector ID: $UTS - 10 - 100830$ EFICIENCIES: $a \leq Cai \beta$ $\beta Y \leq Cai \beta$ Detector ID: $UTS - 10 - 100830$ MDA: $a \leq Cai \beta$ $\beta Y \leq Cai \beta$ $\beta Y \leq Cai \beta$ Detector ID: $UTS - 10 - 100830$ MDA: $a \leq Cai \beta$ $\beta Y \leq Cai \beta$ $\beta Y \leq Cai \beta$ $\beta Y \leq Cai \beta$ Sample Count Time: $UTS = A$ Activity Report In: $Qdpm = pci$ Sample Count Time: $UTS = A$ $Activity Report In: Qdpm = pci$ $a = Background: = 0 = cpm$ $\beta Y = Background: = 0 = cpm$ $\beta Y = a = \beta Y$ SAMPLE ID:       OR:       DESCRIPTION       GROSS COUNTS       NET COUNTS $a = \beta Y = a = \beta Y$ $a = \beta Y = a = \beta Y$ $a = \beta Y$ $a = \beta Y$ $a = 10 = 0$ $Q = Q = -S = -10$ $Z = 0$ $Z = 0$ $Z = 0$ $a = 10 = 0$ $Q = Q = -S = 0$ $Q = 0$ $Z = 0$ $Z = 0$ $Z = 0$ $a = 10 = 0$ $Q = 0$ $Q = 0$ $Z = 0$ $Z = 0$ $Z = 0$ $Z = 0$	Date:       1.2       9.4       Analysis Performed by:       Solution         INSTRUMENT ID: $a$ $a$ $a$ $b$ $D$	AIGS #: ////         SMEAR COUNTING ANALYSIS REPORT         Date: 1-8-9:         COUNTING SYSTEM DATA         DETECTOR ID: 43-10-100330         INSTRUMENT ID: 900-1000         COUNTING SYSTEM DATA         DETECTOR ID: 43-10-1000330         DETECTOR ID: 43-10-1000330         MDA:         a Sample Count Time: Activity Report In: 90m D pCi         GROSS COUNTS         MET COUNTS         Activity Report In: 90m D pCi         SAMPLE ID OR DESCRIPTION         GROSS COUNTS       NET COUNTS         A gr         O 100 - 58 - 10 - 400 - 60         O 100 - 58 - 10 - 400 - 60         O 100 - 58 - 10 - 400 - 60         O 100 - 68 - 3	4 296102-	5	2 2 1 1 <del>1</del> 1		
a Background: $\mathcal{C}$ cpm $\beta\gamma$ Background: $\mathcal{Q}$ $\alpha$ cpm         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta\gamma$ $\alpha$ $\beta\gamma$ $\alpha$ $\beta\gamma$ $-12$ $\mathcal{Q}$ $\mathcal{Q}$ $\mathcal{Q}$ $\mathcal{Q}$ $\mathcal{Q}$ $\mathcal{Q}$ $-12$ $\mathcal{Q}$ $\mathcal{Q}$ $\mathcal{Q}$ $\mathcal{Q}$ $\mathcal{Q}$ $\mathcal{Q}$ $-12$ $\mathcal{Q}$ $\mathcal{Q}$ $\mathcal{Q}$ $\mathcal{Q}$ $\mathcal{Q}$ $\mathcal{Q}$	PERFORMED BY:       Activity Report In: $\Box$ dpm $\Box$ pCi         Sample Count Time: $\Box$ unit       Activity Report In: $\Box$ dpm $\Box$ pCi         a Background: $\Box$ cpm $\beta\gamma$ Background: $\Box$ cpm         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta\gamma$ $\alpha$ $\beta\gamma$ $\alpha$ $\beta\gamma$ $-i\Delta$ $O$ $\Box q$ $-i\delta$ $-iO$ $\omega$ pA $\omega$ $-i\Delta$ $O$ $\Box q$ $-i\delta$ $-iO$ $\omega$ pA $\omega$ $\omega$	MDA: $\alpha$ $\beta$ <th< td=""><td>INSTRUMENT ID:       QQQUIC       COUNTING SYSTEM DATA DETECTOR ID:       DETECTOR ID:       QQUIC         EFICIENCIES:       $a$ $\beta Y$ $\beta Q$ $DETECTOR ID:$ $QQ$ $QQQ$ $QQQ$ $QQQ$ $QQ$</td><td>INSTRUMENT ID:       QQCUTZ       COUNTING SYSTEM DATA DETECTOR ID:         EFICIENCIES:       $a$ $\beta \gamma$ $g \gamma$ $DETECTOR ID:$ $\Box T$ $\Box T$         MDA:       $a$ $\beta \gamma$ $g \gamma$ $g \gamma$ $\Box T$ $\Box T$</td><td>Analysis Performed by: $\Box \subseteq \Box$         COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         INSTRUMENT ID: $\Box \subseteq \Box \subseteq \Box$         COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$         MDA:         ACTIVE BY: $\Box \subseteq \Box \subseteq \Box$         Sample Count Time: $\Box$       ACTIVITY Report In: $\Box$ dpm $\Box$ pCi         ACTIVITY $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ $\Box$</td><td>AIGS #: $\beta$         SMEAR COUNTING ANALYSIS REPORT         Date:</td><td></td><td><u> </u></td><td>e din ¹n</td><td>·</td></th<>	INSTRUMENT ID:       QQQUIC       COUNTING SYSTEM DATA DETECTOR ID:       DETECTOR ID:       QQUIC         EFICIENCIES: $a$ $\beta Y$ $\beta Q$ $DETECTOR ID:$ $QQ$ $QQQ$ $QQQ$ $QQQ$ $QQ$	INSTRUMENT ID:       QQCUTZ       COUNTING SYSTEM DATA DETECTOR ID:         EFICIENCIES: $a$ $\beta \gamma$ $g \gamma$ $DETECTOR ID:$ $\Box T$ $\Box T$ MDA: $a$ $\beta \gamma$ $g \gamma$ $g \gamma$ $\Box T$	Analysis Performed by: $\Box \subseteq \Box$ COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$ INSTRUMENT ID: $\Box \subseteq \Box \subseteq \Box$ COUNTING SYSTEM DATA         DETECTOR ID: $\Box \subseteq \Box \subseteq \Box$ MDA:         ACTIVE BY: $\Box \subseteq \Box \subseteq \Box$ Sample Count Time: $\Box$ ACTIVITY Report In: $\Box$ dpm $\Box$ pCi         ACTIVITY $\Box$	AIGS #: $\beta$ SMEAR COUNTING ANALYSIS REPORT         Date:		<u> </u>	e din ¹ n	·	
a Background: $\mathcal{A}_{cpm}$ $\mathcal{A}_{cpm}$ $\mathcal{A}_{cpm}$ $\mathcal{B}_{Y}$ SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta_Y$ $\alpha$ $\beta_Y$ $\alpha$ $\beta_Y$ $-i \lambda$ $\mathcal{O}$ $\mathcal{Q}_{q}$ $-i \mathcal{R}$ $-1 \mathcal{O}$ $\mathcal{A}_{p}$	PERFORMED BY:       Description       py (state of the state of the stat	MDA: $\alpha$ $\beta$ <th< td=""><td>INSTRUMENT ID:       QQCUt3       COUNTING SYSTEM DATA DETECTOR ID:       DETECTOR ID:       QCUT000000000000000000000000000000000000</td><td>INSTRUMENT ID:       QQCUTS       DETECTOR ID:       QQCUTOR         EFICIENCIES:       $a$ $\exists$ COL       $\beta\gamma$ $\beta\gamma$ $d$         MDA:       $a$ $d$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$         PERFORMED BY:       $d$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$         Sample Count Time:       $\mu\mu\mu$       Activity Report In:       $Qpm$ $\muCi$ $\alpha$ $\beta\alpha$ $\beta\gamma$ $\alpha$ $\beta\gamma$ $\alpha$         SAMPLE ID:       OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $\alpha$ $\beta\gamma$ $\alpha$ $\beta\gamma$ $\alpha$ $\beta$ $-1$ $Q$ $Q$ $-\sqrt{2}$ $-10$ $\Delta$ $\alpha$</td><td>Date:       Analysis Performed by:       Spin.         INSTRUMENT ID:       QQQQQ       COUNTING SYSTEM DATA DETECTOR ID:       DETECTOR ID:       QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ</td><td>MIGS #: 2         SMEAR COUNTING ANALYSIS REPORT         Date: Analysis Performed by: $\bigcirc$         COUNTING SYSTEM DATA         DETECTOR ID: $\bigcirc$         INSTRUMENT ID: $\bigcirc$         COUNTING SYSTEM DATA         DETECTOR ID: $\bigcirc$         DETECTOR ID: $\bigcirc$         PERFORMED BY:         Sample Count Time: $\bigcirc$       MULL         Activity Report In: $\bigcirc$ dpm       $\square$ pCi         GROSS COUNTS         NET COUNTS       Activity         GROSS COUNTS       NET COUNTS       Activity         A gg       A gg</td><td></td><td>ζ</td><td>1</td><td></td></th<>	INSTRUMENT ID:       QQCUt3       COUNTING SYSTEM DATA DETECTOR ID:       DETECTOR ID:       QCUT000000000000000000000000000000000000	INSTRUMENT ID:       QQCUTS       DETECTOR ID:       QQCUTOR         EFICIENCIES: $a$ $\exists$ COL $\beta\gamma$ $\beta\gamma$ $d$ MDA: $a$ $d$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ PERFORMED BY: $d$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ Sample Count Time: $\mu\mu\mu$ Activity Report In: $Qpm$ $\muCi$ $\alpha$ $\beta\alpha$ $\beta\gamma$ $\alpha$ $\beta\gamma$ $\alpha$ SAMPLE ID:       OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta\gamma$ $\alpha$ $\beta\gamma$ $\alpha$ $\beta$ $-1$ $Q$ $Q$ $-\sqrt{2}$ $-10$ $\Delta$ $\alpha$	Date:       Analysis Performed by:       Spin.         INSTRUMENT ID:       QQQQQ       COUNTING SYSTEM DATA DETECTOR ID:       DETECTOR ID:       QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ	MIGS #: 2         SMEAR COUNTING ANALYSIS REPORT         Date: Analysis Performed by: $\bigcirc$ COUNTING SYSTEM DATA         DETECTOR ID: $\bigcirc$ INSTRUMENT ID: $\bigcirc$ COUNTING SYSTEM DATA         DETECTOR ID: $\bigcirc$ DETECTOR ID: $\bigcirc$ PERFORMED BY:         Sample Count Time: $\bigcirc$ MULL         Activity Report In: $\bigcirc$ dpm $\square$ pCi         GROSS COUNTS         NET COUNTS       Activity         GROSS COUNTS       NET COUNTS       Activity         A gg       A gg		ζ	1		
a Background: $\mathcal{C}$ cpm $\beta \gamma$ Background: $\mathcal{Q}$ cpm         SAMPLE ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$ $\alpha$ $\beta \gamma$	PERFORMED BY:       Sample Count Time:       PERFORMED BY:       Activity Report In:       Cdpm       PCi $\alpha$ Background: $\alpha$ Cpm $\beta Y$ Background: $Q$ cpm         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ $\alpha$ $\beta Y$ $\beta$ $\beta$ $\alpha$ $\beta$ $\beta$ $\beta$ $\beta$ $\beta$ $\beta$ $\alpha$ $\beta$ $\alpha$ $\beta$ $\alpha$ $\beta$ <t< td=""><td>MDA:       $\alpha$ $\beta$ <th< td=""><td>INSTRUMENT ID:       $QQCUFZ$       DETECTOR ID:       <math>GTGTCORSTOR         EFICIENCIES:       $a$ $SCOID$ $\betaY$ $SCOIC$       DETECTOR ID:       <math>GTGTCORSTOR         MDA:       $a$ $SCOID$ $\betaY$ $SCOIC$ $STRUMED BY:$       &lt;</math></math></td><td>INSTRUMENT ID:       QQ CUTZ       COUNTING SYSTEM DATA         EFICIENCIES:       $a$ $5C_{01}$ $\beta_Y$       DETECTOR ID:       $43-10-100836$         MDA:       $a$ $\beta_Y$ $\beta_Y$ $\beta_Y$ $\beta_Y$ $\beta_Y$         MDA:       $a$ $\beta_Y$ $\beta_Y$ $\beta_Y$ $\beta_Y$ $\beta_Y$         Sample Count Time:       $\mu_{UU}$       Activity Report In:       $Q$ dpm       $\mu_Ci$ $a$       Background:       $G$ $G$ $G$ $G$         SAMPLE ID:       OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $a$ $\beta_Y$ $a$ $\beta_Y$ $a$ $\beta_Y$ $a$ $\beta_Y$ $a$ $\beta_Y$ $a$ $\beta_Y$</td><td>Analysis Performed by: $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$</td><td>AIGS #: 2         SMEAR COUNTING ANALYSIS REPORT         Date:</td><td></td><td></td><td></td><td></td></th<></td></t<>	MDA: $\alpha$ $\beta$ <th< td=""><td>INSTRUMENT ID:       $QQCUFZ$       DETECTOR ID:       <math>GTGTCORSTOR         EFICIENCIES:       $a$ $SCOID$ $\betaY$ $SCOIC$       DETECTOR ID:       <math>GTGTCORSTOR         MDA:       $a$ $SCOID$ $\betaY$ $SCOIC$ $STRUMED BY:$       &lt;</math></math></td><td>INSTRUMENT ID:       QQ CUTZ       COUNTING SYSTEM DATA         EFICIENCIES:       $a$ $5C_{01}$ $\beta_Y$       DETECTOR ID:       $43-10-100836$         MDA:       $a$ $\beta_Y$ $\beta_Y$ $\beta_Y$ $\beta_Y$ $\beta_Y$         MDA:       $a$ $\beta_Y$ $\beta_Y$ $\beta_Y$ $\beta_Y$ $\beta_Y$         Sample Count Time:       $\mu_{UU}$       Activity Report In:       $Q$ dpm       $\mu_Ci$ $a$       Background:       $G$ $G$ $G$ $G$         SAMPLE ID:       OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $a$ $\beta_Y$ $a$ $\beta_Y$ $a$ $\beta_Y$ $a$ $\beta_Y$ $a$ $\beta_Y$ $a$ $\beta_Y$</td><td>Analysis Performed by: $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$</td><td>AIGS #: 2         SMEAR COUNTING ANALYSIS REPORT         Date:</td><td></td><td></td><td></td><td></td></th<>	INSTRUMENT ID: $QQCUFZ$ DETECTOR ID: $GTGTCORSTOR         EFICIENCIES:       a SCOID \betaY SCOIC       DETECTOR ID:       GTGTCORSTOR         MDA:       a SCOID \betaY SCOIC STRUMED BY:       <$	INSTRUMENT ID:       QQ CUTZ       COUNTING SYSTEM DATA         EFICIENCIES: $a$ $5C_{01}$ $\beta_Y$ DETECTOR ID: $43-10-100836$ MDA: $a$ $\beta_Y$ $\beta_Y$ $\beta_Y$ $\beta_Y$ $\beta_Y$ MDA: $a$ $\beta_Y$ $\beta_Y$ $\beta_Y$ $\beta_Y$ $\beta_Y$ Sample Count Time: $\mu_{UU}$ Activity Report In: $Q$ dpm $\mu_Ci$ $a$ Background: $G$ $G$ $G$ $G$ SAMPLE ID:       OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $a$ $\beta_Y$ $a$ $\beta_Y$ $a$ $\beta_Y$ $a$ $\beta_Y$ $a$ $\beta_Y$ $a$ $\beta_Y$	Analysis Performed by: $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	AIGS #: 2         SMEAR COUNTING ANALYSIS REPORT         Date:					
a Background: $\  \  \  \  \  \  \  \  \  \  \  \  \  $	PERFORMED BY:     Description     pythat Abit       Sample Count Time:     Puint     Activity Report In:     dpm     pti       a Background:      Cpm     Byter Background:      cpm       SAMPLE ID: OR DESCRIPTION     GROSS COUNTS     NET COUNTS     Activity       a     BY     a     BY     a     B	MDA: $\alpha$ $\beta\gamma$	INSTRUMENT ID:       QQQUES       COUNTING SYSTEM DATA DETECTOR ID:       DETECTOR ID:       QQUESCON         EFICIENCIES: $a \leq G_{GO}$ $\beta \gamma \leq G\alpha_{GO}$ $\beta \gamma \leq G\alpha_{GO}$ DETECTOR ID: $Q \leq G \leq G\alpha_{GO}$ MDA: $a \leq G_{GO}$ $\beta \gamma \leq G\alpha_{GO}$ $\beta \gamma \leq G\alpha_{GO}$ $\beta \gamma \leq G\alpha_{GO}$ MDA: $a \leq G \leq G\alpha_{GO}$ $\beta \gamma \leq G\alpha_{GO}$ $\beta \gamma \leq G\alpha_{GO}$ $\beta \gamma \leq G\alpha_{GO}$ Sample Count Time: $\alpha \leq G \leq G\alpha_{GO}$ $\beta \gamma \leq G\alpha_{GO}$ $\beta \gamma \leq G\alpha_{GO}$ $\beta \gamma = G\alpha_{GO}$ Sample Count Time: $\alpha \leq G \leq G\alpha_{GO}$ $\beta \gamma = G\alpha_{GO}$ $\beta \gamma = G\alpha_{GO}$ $\beta \gamma = G\alpha_{GO}$ Sample Count Time: $\alpha \leq G \leq G\alpha_{GO}$ $\beta \gamma = G\alpha_{GO}$ $\beta \gamma = G\alpha_{GO}$ $\alpha = G\alpha_{GO}$ Sample ID OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity $\alpha = \beta \gamma$ $\alpha = \beta \gamma$ $\alpha = \beta \gamma$ $\alpha = \beta \gamma$	INSTRUMENT ID:       QQQUES       COUNTING SYSTEM DATA DETECTOR ID:       DETECTOR ID:       QCOURTON         EFICIENCIES: $a \leq Coip$ $\beta\gamma \leq Coic$ $\beta\gamma \leq Coic$ $\beta\gamma \leq Coic$ $DETECTOR ID:$ $Q \leq Coic$ $MDA:$ $DETECTOR ID:$ $Q \leq Coic$ $Q \leq Coic$ $DETECTOR ID:$ $Q \leq Coic$ <td>Date:       Analysis Performed by:       Spin.         INSTRUMENT ID:       QQQ43       COUNTING SYSTEM DATA         INSTRUMENT ID:       QQQ43       DETECTOR ID:       QQ043         EFICIENCIES:       $a \leq Cois$ $\beta \gamma \leq Sci$       DETECTOR ID:       QQ043         MDA:       $a \leq Cois$ $\beta \gamma \leq Sci$ $\beta \gamma \leq Sci$       DETECTOR ID:       QQ043         PERFORMED BY:       $\beta \gamma \leq Sci$         Sample Count Time:       $\mu \mu \mu$       Activity Report In:       <math>Q = prici         $a = Background:$ $Cpm$ $\beta \gamma = Background:$ $Q = cpm$         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         $a = \beta \gamma$ </math></td> <td>AIGS #: 2         SMEAR COUNTING ANALYSIS REPORT         Date: 1 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9</td> <td></td> <td></td> <td>-mpr</td> <td>1ZW</td>	Date:       Analysis Performed by:       Spin.         INSTRUMENT ID:       QQQ43       COUNTING SYSTEM DATA         INSTRUMENT ID:       QQQ43       DETECTOR ID:       QQ043         EFICIENCIES: $a \leq Cois$ $\beta \gamma \leq Sci$ DETECTOR ID:       QQ043         MDA: $a \leq Cois$ $\beta \gamma \leq Sci$ $\beta \gamma \leq Sci$ DETECTOR ID:       QQ043         PERFORMED BY: $\beta \gamma \leq Sci$ Sample Count Time: $\mu \mu \mu$ Activity Report In: $Q = prici         a = Background: Cpm \beta \gamma = Background: Q = cpm         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity         a = \beta \gamma $	AIGS #: 2         SMEAR COUNTING ANALYSIS REPORT         Date: 1 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9			-mpr	1ZW	
a Background:     cpm     Activity Report In:     dpm     pCi       SAMPLE ID OR DESCRIPTION     GROSS COUNTS     NET COUNTS     Activity	PERFORMED BY:     Description     py (state of the state of t	MDA:       α \ A Duu       βγιαα dou         PERFORMED BY:       Sample Count Time:       Activity Report In:       dpm       pCi         Sample Count Time:       y       Activity Report In:       dpm       pCi         a Background:       Gross counts       Background:       Gross counts       NET Counts       Activity         SAMPLE ID: OR DESCRIPTION       GROSS COUNTS       NET COUNTS       Activity	INSTRUMENT ID: QQQUEZ COUNTING SYSTEM DATA EFICIENCIES: a SCALD BY CAL MDA: A COULT BY SAMPLE DETECTOR ID: 43-10-100833 Sample Count Time: A COULT ACTIVITY Report In: Count Deci a Background: Cpm BY Background: Q Cpm SAMPLE ID: OR DESCRIPTION GROSS COUNTS NET COUNTS Activity	INSTRUMENT ID: <u>QQQU</u> EFICIENCIES: <u>a SCaip</u> <u>By KQL</u> MDA: <u>a ladruu</u> <u>By KQL</u> PERFORMED BY: <u>Activity Report In: Com</u> <u>Com</u> Sample Count Time: <u>un</u> <u>Activity Report In: Com</u> <u>Com</u> SAMPLE ID: OR DESCRIPTION GROSS COUNTS <u>NET COUNTS</u> <u>Activity</u>	Date:       Analysis Performed by:       Spin.         INSTRUMENT ID:       QQQQQZ       COUNTING SYSTEM DATA DETECTOR ID:       DETECTOR ID:       QQQQQZQ         EFICIENCIES:       a Scain       By NGQ       DETECTOR ID:       QQQQZQ         MDA:       a Scain       By NGQ       By NGQ       DETECTOR ID:       QQQZQZQ         MDA:       a Scain       By NGQ       By NGQ       By NGQ       DETECTOR ID:       QQQZQZQ         Sample Count Time:       unin       Activity Report In:       Qpm       pCi         G Background:       Gross Counts       NET COUNTS       Activity	SMEAR COUNTING ANALYSIS REPORT         Date:	1 - 3 - 2 - 2 - 0	0.	M N IN		
a Background: cpm βγ Background: cpm	PERFORMED BY:     District       Sample Count Time:     Activity Report In:       a Background:     G       cpm     By Background:	MDA:       α [] Δ [] Δ [] Δ [] Δ []         PERFORMED BY:       Δ [] Δ [] Δ [] Δ []         Sample Count Time:       Δ μιμ         Activity Report In:       Δ [] Δ [] Δ []         α Background:       Δ [] Δ [] Δ []         Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ [] Δ []       Δ [] Δ [] Δ []         Δ [] Δ [] Δ [] Δ [] Δ []       Δ [] Δ [] Δ [] Δ []	INSTRUMENT ID: QQQUEZ COUNTING SYSTEM DATA EFICIENCIES: a SCALD BY SQL MDA: a QQUEZ DETECTOR ID: 43-10-1109873 MDA: a QQUEZ PERFORMED BY: A SYLEADER Sample Count Time: 4 400 Activity Report In: Com DPCi a Background: 9 Cpm By Background: 99 cpm	INSTRUMENT ID: <u>QQQU</u> EFICIENCIES: <u>a SCaip</u> <u>By KQL</u> MDA: <u>a lanu</u> <u>By KQL</u> PERFORMED BY: <u>Activity Report In: Cdpm DuCi</u> Sample Count Time: <u>unit</u> <u>Activity Report In: Cdpm DuCi</u> <u>a Background: <u>S</u> Cpm <u>By Background: <u>Q</u> cpm</u></u>	Date:       Analysis Performed by:       Spinite         INSTRUMENT ID:       QQQQZ       COUNTING SYSTEM DATA DETECTOR ID:       DETECTOR ID:       QQQQZZ         EFICIENCIES:       a Scain       By NGQ       DETECTOR ID:       QGZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	AIGS #:	ALL COUNT				
Activity Report In: dpm pCi	PERFORMED BY: Sample Count Time: Aun Activity Report In: Cdpm D pCi	MDA: PERFORMED BY: Sample Count Time: Activity Report In: MDA: PERFORMED BY: Activity Report In: MDA: PERFORMED BY: PERFORMED BY: P	INSTRUMENT ID: QQCUTZ COUNTING SYSTEM DATA EFICIENCIES: a <u>Scain</u> By <u>Scain</u> MDA: a <u>Scain</u> By <u>Scain</u> PERFORMED BY: <u>Activity Report In: Cdpm D pCi</u>	INSTRUMENT ID: QQ QUZ EFICIENCIES: a <u>Scain</u> MDA: PERFORMED BY: Sample Count Time: Activity Report In: Q dpm D pCi	Date: Analysis Performed by: Spice INSTRUMENT ID: QQCUTZ COUNTING SYSTEM DATA EFICIENCIES: a Scain By Scale MDA: a Admus By Scale PERFORMED BY: A Scale Sample Count Time: A Market Activity Report In: Copy D pCi	AIGS #: 25 SMEAR COUNTING ANALYSIS REPORT Date:	u Background: Cpm βγ Background	1: 99	C	pm	
Sample Count Time: ()	PERFORMED BY: Denter A	PERFORMED BY: BYLGG den	INSTRUMENT ID: <u>QQCUZ</u> EFICIENCIES: <u>a 500;</u> MDA: PERFORMED BY: <u>A</u> CUC PERFORMED BY: <u>A</u> CUC COUNTING SYSTEM DATA DETECTOR ID: <u>43-10-1100570</u>	INSTRUMENT ID: <u>QQC47</u> EFICIENCIES: <u>a 5000</u> MDA: PERFORMED BY: <u>A 2000</u> BY <u>1900</u> BY <u>1900</u> COUNTING SYSTEM DATA DETECTOR ID: <u>43-10-1100570</u>	Date: <u>N-8-94</u> INSTRUMENT ID: <u>994</u> COUNTING SYSTEM DATA DETECTOR ID: <u>43-10-1100873</u> MDA: <u>BY 1994</u> PERFORMED BY: <u>AJAR</u>	AIGS #: 25 SMEAR COUNTING ANALYSIS REPORT Date: Analysis Performed by: 5000000000000000000000000000000000000	Activity Report In:	dpm	🗆 µC	i	

09/93

					Page	c
RADIOLOG	ICAL	SUR	JEY ]	REP		
DATE 1). 8 94	<u> </u>					
TIME 0 800	MODEL		RUMENTA			
SURVEYOR Richard Ruppick	LUDLUR 3	5/N 102445	EFF.%	BKRD		
LOCATION // / CAO	LUDLUM 2724	102445 NR 99043	NA	-130 -776-	- 4 - 5 - Mr	ລື
LOCATION Hat Call	43.10.1/2-122	I NA	367. 5. 187. 5.	123 cpm	m NA	
	++A-	10-7	-#A-	-tifi-	A	+4
Smear Locations Circled; Dose		mR/hr			· ·	
PURPOSE OF SURVEY: SMEAR SUR	JEY DE LEU	<u> </u>		SM	EAR RESU	JLTS
				RESUL I	LTS = DPM, UNLESS NOT	/100
				#	By	·
		i	F			
← ∧	NURTH		ŀ			
			F			
	۲. ۲		F			
a (z)	8 <del>-</del> 3	2	F			<u> </u>
			Ļ			$\perp$
			Ļ			
	(II)		Ļ			17
					/	1
			Γ			
					TE TALHED	
					1 M L M L	
						├
	<b>\$</b>		F		-/!	├
			F		/	
						├
HOT CELL ENTRA	NICE AND FLOOR	! <	┢			<b> </b>
			┝	/-		
			┣-	_/	]	<b> </b>
Remarks: All SMLARE 100 (M2,			╞	<u> </u>	]	L
			<u> </u>			Í
SEL ATTALHED SHEET FO	<u>R SMERK R</u>	<u>ISUETS</u>	/′			

1

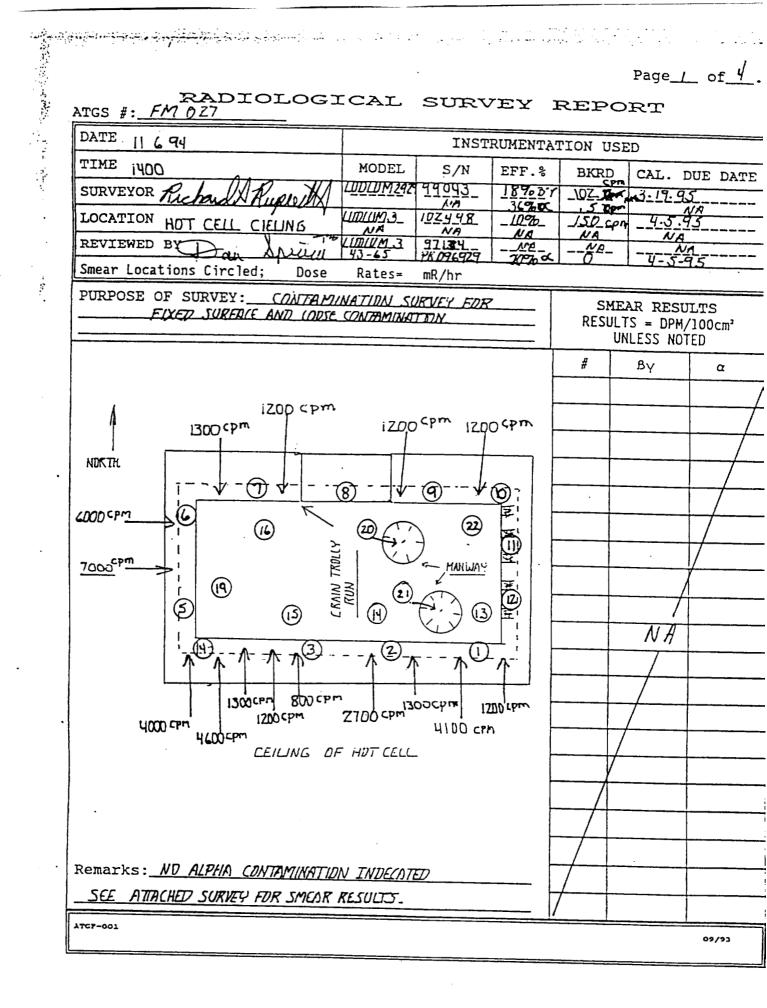
.

Page 1 of 1. ATGS #: FMU26

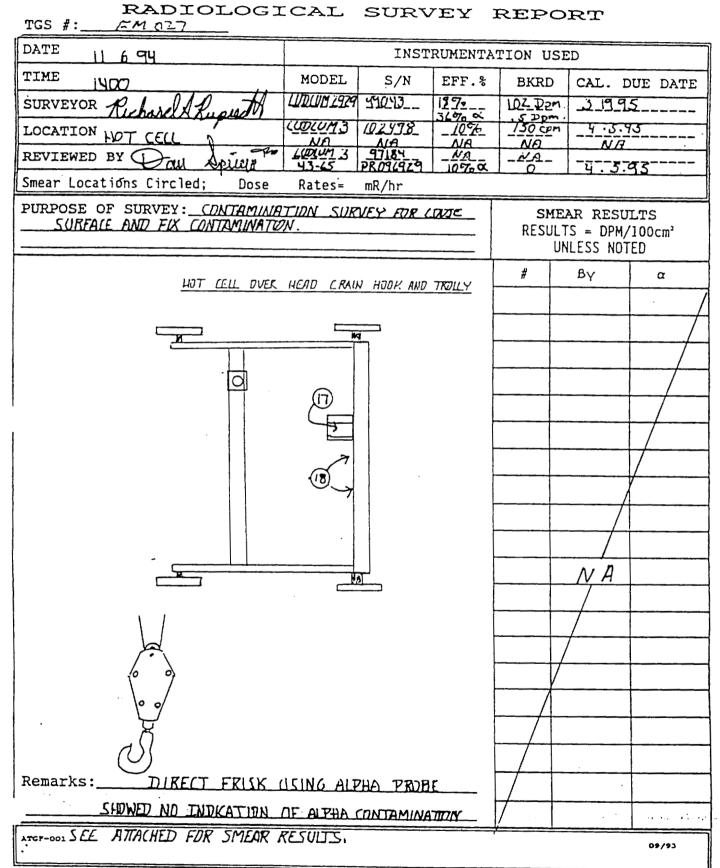
----

#### SMEAR COUNTING ANALYSIS REPORT

Date: 11. 8. 94	A	nalysis	Perform	ed by: L	chirat 1	Regenerally
INSTRUMENT ID: 99043 EFICIENCIES: a 3670 MDA: a 12 DPM PERFORMED BY: DAN SPICUT	COUNTING βγ <u>157</u> βγ <u>189</u> Ι ΖΑ	SYSTEM E	DATA DETECTOR	ID: <u>43 10</u>	01 09 53	<u>2</u> 7
Sample Count Time: Z MIN.	A			In: 🗹 dp		
a Background: <u>8</u> cpm				ound: <u>9</u>		n
SAMPLE ID OR DESCRIPTION	GROSS ( a	COUNTS BY	NET C	OUNTS BY	Acti a	vity βγ
0111	0	115	<u> </u>	ile	KNOK	LEUDA
3 711	1		. 7	71		394
I I Z	7	Z 5 4	1,2	160		888
113	<u> </u>	213	- ,8	114		633
114	١	259	1.2	160		327
n 115	۵	213	- , 93	114		6.33
116	i	93	. Ż	- 6		CAUSHA
117	i	92	.7	-7		
211 (1	3	1ZD	2.2	ZI		
19	Z	104	1.Z	5		
12 120	i	110	, 7	11		
· B 121	٥	) I Z	-, <i>B</i>	13 .		
122	)	93	,2	- 6		
5 123	σ	114	-, 8	15		
1 24	3	105	2.2	a	V	
4		Ą	$\overline{\mathbf{k}}$			
	N N	L			1	
Remarks: Flock of Hel	Cell					
Reviewed by	Spice			11-8-9 , Date	Ť	
ATG7-006		· · ·			09/93	



Page Z of Y.



____

Page <u>3</u> of <u>4</u>. ATGS #: <u>FM 027</u>

SMEAR	COUNTIN	G ANALYS	IS REPOR	T	10	A. Ah
Date: 11,6,94	A	nalysis	Performe	ed by: 1	<u>ictall</u>	Ringson
INSTRUMENT ID: 99 043 EFICIENCIES: a 35 70 MDA: a 11 April PERFORMED BY: DAN SPICIFIC	βγ <u>15.07</u>	D	DATA	ID: <u>43-</u> ]	,	9. <i>83</i> 27
Sample Count Time: <u> </u>	A	ctivity				
a Background: <u>.5</u> cpm	<u> </u>	βγ	Backgro	ound:_10	<u>Z</u> cp	m ·
SAMPLE ID OR DESCRIPTION	GROSS	COUNTS βγ	NET C	OUNTS BY	Acti a	vity βγ
1	1	128	12	26.	< MDA	CMDA
2		125	.2	23.		
3	<b>l</b>	106	.2	ч.		
ч	I	120	.2~	18.		
5	2	103	12-	1.		
- 6	3	135	Z.Z			
1 <u>7</u>	0	104	-0.8	Ζ.		
8	0	115	-0.8	13.		
9	0	114.	-0.8	12.5		
10	1.5	132	7,	30.		
		117	,2	15.		
	0	103	- D'8	1		
13		108	7	6.		
14	1.5	112.5		10.5		
.75	0	[1]	-0.8	9.		V
16	0	106	<u> </u>	<u>ч.</u>		< MDA
17 HOIST MOTOR		301	.7.	199.	1. ge	1105.5
18 TROLLY		5.36.5	.2.	434.5	•	2413.8
19 CTELING (WEST END OF CELL)	1	100	۰Z	- <u>2</u> .		< MDA
10 MAWWAY NERREST ENTRANCE	J	103,5	.7.	: 1.5	< MDA	< MTDA
Remarks:		·				
				11.0-1	<u>.                                    </u>	

· · · ·

Reviewed by

.

.

Spine

11-8-04 , Date

- ATCF-006

.

09/93

SMEAI	R COUNTI	NG ANALYS	IS REPO	RT	Page <u>4</u> ATGS #:	FM OLY
Date: 11 6 94		Analysis		{	Walt.	N-mint
	COUNTIN	G SYSTEM		ieu by. j	W IN AN ALL	-17 VILLIA
INSTRUMENT ID: <u>99043</u> EFICIENCIES: a <u>3570</u>		I		ID: <u>43</u>	101/09	8327
MDA: a IN DPM	βγ_18 βγ_192	DPM				
PERFORMED BY: D Sprown Sample Count Time: 2		Activity	Report	In: 🖻 dp	m 🛛 uCi	<u> </u>
a Background: .5 cpm				ound: 10		
SAMPLE ID OR DESCRIPTION	GROSS	COUNTS BY		COUNTS BY	T	.vity βγ
Z.I MANWAY NEAREST BACK WALL	1	105.5	, 2	ک،ت	< MDA	< MDA
22 CETLING (EAST END OF CEIL)	1	103	.2	1.		
, T	$\wedge$	$\wedge$	Λ	$\wedge$	1	↓ A
NA	NA	NA	NA	NA	NA	NA
				: _		
			•			
			•			
						· ·
			÷		• A	•
	$\vee$	V	¥	. ¥	Y	
Remarks:						
Reviewed by	ALCON.			\\- <u>8</u> -9 , Date	f.	

Page 1 of 14.

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	JATE 11/5/94		INST	RUMENTA	TION US	ED	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	TIME 1445	MODEL		T		· · · · · · · · · · · · · · · · · · ·	DUE D
REVIEWED BY       Inclum      A+A       -A+A      A+A         Smear Locations Circled;       Dose       Rates-       mR/hr       -         PURPOSE OF SURVEY: $Bkey 130$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$		3	102448		VARIES	_	
REVIEWED BY       Inclum      A+A       -A+A      A+A         Smear Locations Circled;       Dose       Rates-       mR/hr       -         PURPOSE OF SURVEY: $Bkey 130$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$ $110$	LOCATION Fort McClellan Blug 3M2-Hot CE 11-South WALL	43-65	<u>47130</u> 096479	-228c			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	REVIEWED BY Spicila	A+A-					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		and the second se					
HIOD 1300       IZO       CRAIN TROLLY AREA       N       IEO       HOW         400       740 $400$ $500$ $500$ $500$ $500$ 400 $400$ $400$ $120$ $500$ $500$ $500$ 170 $400$ $120$ $120$ $120$ $120$ $120$ $120$ $120$ $120$ $110$ $130(5)$ $120$ $110$ $130(5)$ $120$ $110$ $130(5)$ $120$ $110$ $130(5)$ $120$ $110$ $1200$ $110$ $1200$ $110$ $1200$ $110$ $1200$ $110$ $1200$ $1100$ $1200$ $1100$ $1200$ $1100$ $1200$ $1100$ $1200$ $1100$ $1200$ $1100$ $1200$ $1100$ $1200$ $1100$ $1200$ $1100$ $1200$ $1100$ $1200$ $1100$ $1200$ $1100$ $1200$ $1100$ $1100$ $1100$ $1100$ $1100$ $1100$ $1100$ $1100$ $1100$ $1100$ $1100$ $1100$ $1100$ $1100$ $1100$	(4) 150 (5) 120 (6) 200 (4) 150 (6) 150 (1) 150	(7) 120 (2) 120	(8) 150 Characteriza	<u>tion</u>	RESUL	TS = DPM	/100cm
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	800				#	ßү	α
	400 170 170 170 170 170 170 170 1	10 10 10 500 1200 500 1200 250 250 250	500				
	•						
Remarks: <u>All renoings - Gross Ci²M</u>	ALTHA FRISK SHOWED NO ACTIVITY						

:

Page 2 of 14 RADIOLOGICAL SURVEY REPORT FM 028 ATGS #:_ DATE 11 6 94 INSTRUMENTATION USED TIME כטאט MODEL S/N EFF.% CAL. DUE DATE BKRD 111/1929 35 70 W -8 CPM 490 43 3.19.95 SURVEYOR NA NA. NI <u> MA</u> LOCATION NB HOT CELL SOUTH WALL NE NA NA NA NA -Ad---AA REVIEWED BY --11Ki-NA -1477 Smear Locations Circled; Dose RatesmR/hr-per PURPOSE OF SURVEY: CONTRIMETEDN SURVEY SMEAR RESULTS .*  $RESULTS = DPM/100cm^3$ 2 UNLESS NOTED ·βγ # α ł 1 0 ଡ  $\otimes$ ⁄⊗ ⊗ ah ۳ 1 21 " 🕕 6) ;0 ☜ 3 Û ☯ ·D Ð 6 ତ (1) 2 Ø  $\odot$ 5 8 😨 II  $\odot$ 6 6  $\odot$  $\odot$ •  $\odot$  $\odot$ 3 1 3 0 Q 9 i2 🕄 6 Ð ... 1 Ø Δp €  $\bigotimes$ VIEW OF INSIDE SOUTH WALL OF HOT CELL ···· /1 ż Remarks: ALL SMCARS IDD CM2 SEE ATTACHED FOR SMEAR RESULTS , · •· • 11 ATGF-001 09/93 . .

Page j of 14.

DATE 11794		INST	RUMENTA	TION U	SED	
TIME	MODEL	S/N	EFF.%	BKRD		DUE DA
SURVEYOR Richard A Russon	LUDUM BE	AUTE NA	35 70 G	· <u>5 _ (Pj</u>	n	11.95
LOCATION Hot Call	NA NA NA	ALA	Ale-	- DL CP	<u>n</u>	NA
REVIEWED BY D. Source			A!4:	NA		RIK!
Smear Locations Circled; Dose	Rates-	mR/hr r		<u>N</u>		105
PURPOSE OF SURVEY: <u>SMEAR SUR</u> REMOVEBLE CONTARTI	AIGY LOCAT			RESU	IEAR RESU ILTS = DPM, UNLESS NO	/100cm ²
				#	βγ	α
		NORTH	. [			+
<del></del>			> [			+
	0	<u> </u>	Γ			+
(PENITRATIONS)		$\sim$	F			+/-
38 13			·  -			+-/
			-	+		+-/
			-	+		<u>  /</u>
			┝			<u> /</u>
			-			ľ
(+2)	Ð –		F		/	ļ
			F		NA	
15 (14)	<u>15</u> 9		F			
			Ļ		_/_!	
(43) ; (54)					/	
					/	
VIEW OF WEST CELL V	NALLS			/		
				/		 I
NOTE, UNDERLINET NUMBER TUDIE			[-	/		
UNDEKLINED NUMBERS INDICATE	L GRID NUML	SER.	[	1		
lemarks: <u>ALL SMEARS</u> 100 cm ² .			_	++		
SEE ATTACHED FOR SMEAR RESULT	ΓS		— H	/		

.

ź

4 Page 6 of <u>14</u>.

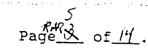
TGS #: FM 029 DATE IIIsky	SURV				
	INST	RUMENTA	TION US	ED	
SURVEYOR T.O.D. MODEL	S/N	EFF.%	BKRD	CAL.	DUE DATE
J.K. Kaprecht NA	-102498 NA		SCIE BLION	-9.5	· 9. j'
LOCATION Fort de Clellan LUULIM 3 Blg 3142 - Hot cull-west Wall 43-65	91134	10 73	-2 CH	415	195
REVIEWED BY DIRING NA		-Atig-	- / + / + + / + / + - / + / + - / + / +		<u>//                                   </u>
Smear Locations Circled; <u>DoseRates=</u>	mR/hrv		ngs (Pancak		
PURPOSE OF SURVEY: Characterization for ,	emediation				
13Kgd : (18) 130 (14) 150 (15) 170			RESULT	AR RESU S = DPM	/100cm ³
(16) 180 (17) 150 (18) 150			UI	LESS NO	TED
			#	ßγ	α
	NORTH	. [			
7000 mucr rest for vent de		> [			1 7
· · · · · · · · · · · · · · · · · · ·	1				<u>/</u>
(PENETRATIONS)	$\square$	F			<u>├/-</u>
		• -			/
70 0 J					1
1500					
4000		-			/
		-			/
500 Classic				/	1
300				NIX	h
400 0 350		-			¥
(5) (6 ³ 60		-		/	
200				/	
( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		Γ			
×900 500 350		-			
	- yellow GA			/	
3 1500	- Groun WAS	ar Lint	/		
VIEW OF WEST CELL WALLS	- Red Pipe				
+ Drain pipe removed, only stub rema	ans	F	/_		
$O = G_{11} D n m b m$		┝			
emarks ID DITHE OFTIME			1		
emarks: <u>NO ALPHR ACTIVITY GAGATER THAN BI</u>	SLK GROUND		/		
WAS INDICATED		7	;		
C7-001				·	

:

,

•

.



..

DATE 117 AVI		INST	RUMENTAT	TION US	ED	
TIME O S 30	MODEL	S/N	EFF.%	BKRD		DUE DATE
SURVEYOR Gelaut Known	LUDLUMRZ	7_97243	_257.0	: 3 C.P.	7 3.	9.95
LOCATION HOT CELL		11-	-15-6-	IUZ CPM		1. 1.].
REVIEWED BY	-fit #	~~~-	-A.4	-1-1-		<u></u>
Smear Locations Circled; Dose	Rates=	mR/Ar 20				
PURPOSE OF SURVEY: <u>SMEAF SURVE</u> REMOVABLE SONTHMUMETTON	<u>Y IS TO LO</u>	CATE IREA.	<u> </u>	RESUL	EAR RES TS = DP INLESS N	M/100cm ³
				#	βγ	α
			_			
TROLLY RUN FOR CF	TAIN					
S 19 6 22 25 (1)						
	- <u>25</u>	(35)	Ļ			/
						4
	<i>(</i> \$ <i>)</i>		-		/	,
() () () () () () () () () () () () () (	-19	(FF)			NA.	/
(B) III	) B					
		<b>E</b>	Ļ			
	) <u>8 30</u>		-		/	
	i	9	-		1	
			ŀ			
NORTH VIEW OF INNER CELL	1.10(7		ŀ	/		
NG7E:			F	/		
ALL LNDERLINED NUMBERS IN Remarks: <u>ALL SMEAR</u> אינה טוט בויויי,	DICATES GRI	DNUMBLR	-			
SEE ATTACHED FOR STIEAR	RESULTS		-			
						1

Page ____ of ____.

RADIOLOGI ATGS #: <u>FM 028</u>	CAL	SURV	EY 1	REPO	RT	
DATE 11 5 95	{	INST	RUMENTA	TION USI	ED	}
TIME DADO	MODEL	S/N	EFF.%	BKRD	CAL. D	UE DATE
SURVEYOR Richard Kupit	LUDLUM 3	122493	_109ja	110 CT	<u> </u>	
LOCATION HOT CELL	43.65	97139	D.J. NR	- OCRH		
REVIEWED BY	*/;;-			-155-		<i>ç</i>
Smear Locations Circled; _Dose	Rates=	mR/hr m				
PURPOSE OF SURVEY: DIRECT P	ROBL SUF	<i>ΝΕΥ</i>		RESUL	AR RESU TS = DPM/ NLESS NOT	100cm²
				#	βγ	α
<u>130D</u> 1200 124	22					
	<u>1</u> Z	$\frac{10}{7}$				
TROLLY RUN FOR ER	AIN	}				
1 250 0 250,230 220 20	081 180					/
		120				Y
3×6120 100 1 130		6			/	
	6 ,100	330			/	
Z 100 (372) 25KG	40				NA	
	120 80	1 (C: . 140 -		-		- <u></u>
300 400 1 B BK6150 1 120 120 120 120 120 120 120 12	140					
	kzł	N.G 110			-/	
250 350 200	1 228	350	<u> </u>	/	/	
NORTH VIEW OF INNER CELL	i "IACC					
THAT TO DE LINNET LELL						
Remarks: NO ALPHA ALTIVITY	GREATER	THAN RATE				
INDICATED,						
ATGP-001				<u> </u>		09/93

;.

.

Page _____ of _____.

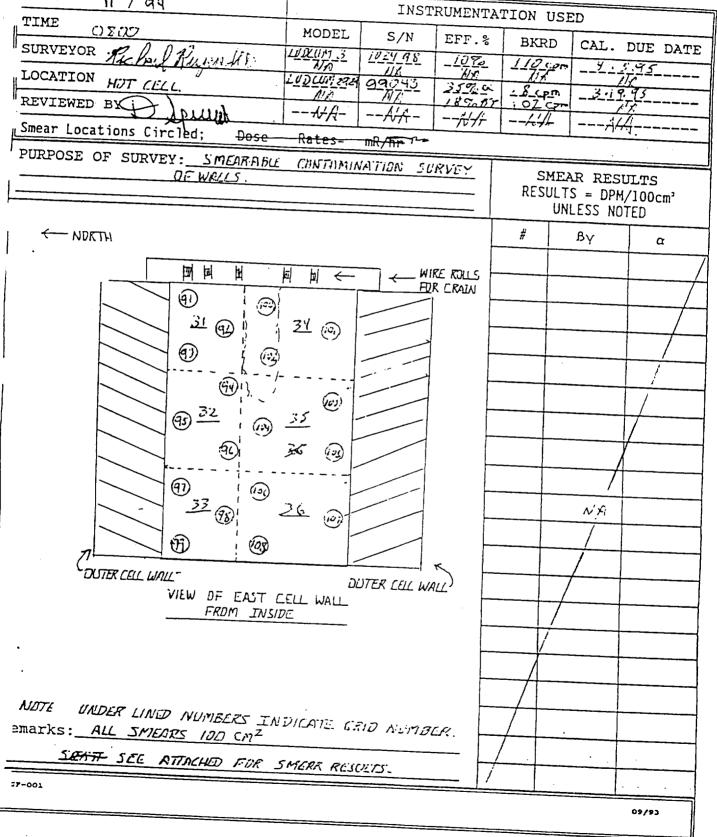
DATE II 5 GY III 5 GY IIIIE D G DD SURVEYOR Rechard A Rectified in the content of the conten	<b>RADIOLOG</b> TGS #: <u>FM 028</u>	ICAL	SURV	YEY :	REPO	$\mathbf{RT}$	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			INST	RUMENTA	TION USI	ED	
SURVEYOR $A$		MODEL	S/N	EFF.%	BKRD	CAL. I	UE DATE
LOCATION MAT CELL. NOT CELL. REVIEWED BY ALLAS IN SUBJECT WALL REVIEWED BY ALLAS INTERPOSE Smear Locations Circled; Dese Rates mATRY Too DURPOSE OF SURVEY: FIXED CONTAMINATION SUMMEY SMEAR RESULTS RESULTS = DPM/100cm ² UNLESS NOTED UNLESS NOTED IN IN IN INC. IN INSTRUCTION CONTAMINATION SUMMEY SMEAR RESULTS RESULTS = DPM/100cm ² UNLESS NOTED IN INSTRUCTION CONTAMINATION SUMMEY SMEAR RESULTS RESULTS = DPM/100cm ² UNLESS NOTED IN INSTRUCTION IN INSTRUCTION IN INSTRUCTION IN INSTRUCTION IN INSTRUCTION IN INSTRUCTION IN INSTRUCTION IN INSTRUCTION IN INSTRUCTION IN INSTRUCTION RESENTED IN INSTRUCTION IN INSTRUCTION RESENTED IN IN INSTRUCTION RESENTED IN IN INSTRUCTION RESENTED IN IN INSTRUCTION RESENTED IN IN INSTRUCTION RESENTED IN IN IN INSTRUCTION RESENTED IN IN IN IN INFORMATION RESENTED IN IN INFORMATION RESENTED IN IN IN IN INFORMATION RESENTED IN IN INFORMATION RESENTED IN IN INFORMATION RESENTED IN IN IN INFORMATION RESENTED IN IN INFORMATION RESENTED IN IN INFORMATION RESENTED IN IN INFORMATION RESENTED IN IN IN INFORMATION RESENTED IN IN INFORMATION RESENTED IN IN IN IN INFORMATION RESENTED IN IN INFORMATION RESENTED IN IN INFORMATION RESENTED IN IN IN IN INFORMATION RESENTED IN IN IN IN IN INFORMATION RESENTED IN IN IN IN IN INFORMATION RESENTED IN IN I		LUDLUM 3					95
REVIEWED BY $Mule$ $-HA$	TOCATTON		97134	:090			
Smear Locations Circled;       Dese Rates - mRAPHTY         PURPOSE OF SURVEY:       FIXED - CONTRUMIT LON SUMMEY         SMEAR RESULTS         RESULTS = DPM/100cm ² WIRE SNOTED         WIRE SNOTED         WIRE SNOTED         WIRE SNOTED         BY         A         BY         BY </td <td>REVIEWED BY</td> <td></td> <td></td> <td></td> <td></td> <td>N</td> <td>X1 Z1 Z1</td>	REVIEWED BY					N	X1 Z1 Z1
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			mR/hr	1		<u>~</u>	
$\leftarrow \text{NDRTH} \qquad \qquad$	PURPOSE OF SURVEY: <u>FIXED ()</u>	ערדוגאוואאדע.	N SUMVEY		RESUL	TS = DPM	/100cm²
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					· · · · · · · · · · · · · · · · · · ·		1
S $S$ $S$ $S$ $S$ $S$ $S$ $S$ $S$ $S$	NDRTH				XI.		
2250     150       130     1/30       130     1/30       130     1/20       130     1/20       130     1/20       130     1/20       130     1/20       130     1/20       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10       130     1/10		査査			1		
S $S$ $S$ $S$ $S$ $S$ $S$ $S$ $S$ $S$	230	180		-			
S $S$ $S$ $S$ $S$ $S$ $S$ $S$ $S$ $S$	130	1/30					
S       Image: S       Starts:				-			
S       Image: S       I		120		2	A		
Image: Strength in the second seco		, כגוו		-		<u> </u>	
Imo     Bit     110       Imo     110     140       Imo     120     BAS 160       Imo     130     140       Imo     140     140       Imo     140     140       Imo     140     140	טטו	I IT BUC				<u> </u>	
Image: State of the state o	8/1					1 F	<u>+</u>
Image: Strength of the state     Image: Strength of the state     Image: Strength of the state       Image: Strength of the state     Image: Strength of the state     Image: Strength of the state       Image: Strength of the state     Image: Strength of the state     Image: Strength of the state       Image: Strength of the state     Image: Strength of the state     Image: Strength of the state						~~/ ·	
Image:	BK6 IID	140					
S Image: Stide of the second	- 130 -	SKE ILD				/	
JUTER CELL WALL     DUTER CELL WALL       VIEW OF EAST CELL WALL       FROM INSIDE       State       State       SHOWED ND ACTIVITY GREATER THAN BIGS	150	140		1			λ
VIEW OF EAST CELL WALL         FROM INSIDE         \$         Lemarks:       ALL SMEARS 100 CM2         DIRECT PRODE ALPHA FRISH         SHOWED ND ACTIVITY EREATER THAN BKG			DUTERCOU				┣╲───
FRDM INSIDE       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$		E CELL WALL		WKLL'			┼─╲
SHOWED ND ACTIVITY GREATER THAN BKG			_				<u>↓ _                                   </u>
SHOWED ND ACTIVITY GREATER THAN BKG							
SHOWED ND ACTIVITY GREATER THAN BKG							
SHOWED ND ACTIVITY GREATER THAN BKG	•						
SHOWED ND ACTIVITY GREATER THAN BKG	7						
SHOWED NO ACTIVITY GREATTER THAN BKG	-	URECT PRO	ALPHA	FRISH			
NC7-001							
	N7-001				<u> </u>		

ź

۰.

Page 8 of 14.

RADIOLOGICAL SURVEY REPORT TGS #: " DATE 11 7 94



Page 9 of 14. ATGS #: <u>FM 025</u>

#### SMEAR COUNTING ANALYSIS REPORT

ate: // 6 91	A	nalysis	Performe	d by:	ch. 04K	Pupist 1
INSTRUMENT ID: 99043	COUNTING	SYSTEM D				1
	βγ <u>187</u> βγ <u>192</u> D					
PERFORMED BY: DAN SPICUZZA			Report I	n. B. das		
ample Count Time: <u>2 MIN</u> a Background: .5 cpm	A		Backgro			
SAMPLE ID OR DESCRIPTION	GROSS		NET CO			ivity
SAMPLE ID OR DESCRIPTION	a	βγ	a	βγ	α	βγ
(	Ð	27	-0.5	- 15	C MDA	(ואערא
2.	.5	9Z	D,	- 10	V	i
3	0	বন্ধ	-0,5	- 3		
I ý	2	az	1.5	<u> </u>		
5 1	)	96,5	5،	ي. ح		
	D	93.5	ت. ם	8.5		
2	i.5	רף	1.	- <u>-</u>		
18	5	91	0	- 5		
7	5	97	O,			
10		100	15	- 3		
1	Э	ବସ	تد, ن —	- 3		
12	1	ঀঽ	, 5	7.		
3	2.	দ্রন	1,5	<u>- 13</u>		
14	.Ò.	941.5	ى	7.5		
5	. 5	CI LO	-0,5	- Lo		
16	5	<b>R</b> 2	- 0,5	7		
7		98.5	,5	- 3,5		
19	D	95.5		-6,5		
	2,5	106.5	Z:	4.5	V	$\vee$
<u>и</u>	D	131	2,0-	29	< MIDA	KMDA
I marks:	D .					
Reviewed by	Speece	·····		<u>, Date</u>		
ATCF-006		· ·			09/93	

Page <u>12</u> of <u>14</u>. ATGS #: <u>F-W-018</u>

#### SMEAR COUNTING ANALYSIS REPORT

ate: <u>// &lt; . 94</u>			Performe	ed by: 7	icho DA 1	Puper del
INSTRUMENT ID: 99043 EFICIENCIES: a 35 %	COUNTING βγ <u>ιςτη</u> βγ <u>ιηζ</u> τη	D 70	DATA DETECTOR	ID: <u>43-</u> 1	10-1 09	<u>83</u> 27
ample Count Time: <u>Z MIN</u>		ctivity	Report	In: 🗟 dp	m 🗆 µC:	i
a Background:		. βγ	Backgro	ound: <u>10</u>	<u>)7_</u> cr	, Du
SAMPLE ID OR DESCRIPTION	GROSS	COUNTS BY	NET C a	OUNTS βγ	Act a	ivity βγ
<u>۲</u>	.5	ุ่ 16.5		6.5	ZUDA	LUDA.
22	Q.	125	-0,5	Z.3		1
13	، ح	117	G	15		
24	3,5	111	3	0		
25 1	D:	144	-0.5	니 끈		1233
26	D,	104.5	.5	<u> 25</u>		LUIDIA
27	.5	108.5	٥	6.5		
28	1	104	15	z.		
29	,5	149.5	D	47.5		104
30	i,	122,5	- 5	2015		LUDA
31	35	133.5		ت، اتر		
32	<u>'5</u>	85		- 17.		
33	: 5	127.5		25.5		
34	.5	112		16		
35	D,	110.5	- 0.5	8:5		
36	D,	2.79	د.ه	-4,5		
<u></u>	1.5	Z54.5	1	53.5		297.2
38	D	120.5	-0.5	15		LUNDA
39	,5	167.5	0	65.5		436.6
40	,5	111,5		: 9.5	1 1	SUDA
emarks:						
Reviewed by	Spraine_			11-8-9 , Date		

TGF-006 09/93

RAR 11 Page <u>J</u> of 14. ATGS #: <u>FIL-0</u>28

#### SMEAR COUNTING ANALYSIS REPORT

ate: it the fact	. 1	Analysis	Performe	ed by: R	-hald A	uns the
	COUNTING	SYSTEM	DATA			
INSTRUMENT ID: 990117 EFICIENCIES: a 3570	βγ_; σ, σ		DETECTOR	ID: <u>43</u>	100	\$ 37.7
MDA: <u>a 11 DPM</u>	βγ_19Z					
ample Count Time:	1	Activity	Report :	In: Ø dp	m 🗆 µCi	
a Background:			Backgro			
SAMPLE ID OR DESCRIPTION	1	COUNTS	NET C		1	vity
	<u>a</u>	βγ	a	βγ	a	βγ
	ii	133.5	. <u>5</u>	3115	<u> LUDA</u>	<u> LUIDA</u>
42	.5	102.5	. 5	,5		
42	1	177	.5	5		
4 <u>7</u> 14ù	1	96	<u>ک،</u>	-6		
45	1	109		7		
16	0	84	-0.5	-18		
<u>)7</u>	2	ดา	i.5_			7
48	2_	1270	1.5	1168		6485
19	۵	125	-015	23		LUNA
50	Z	122	1,5	2.7		
51	0	121	-0.5	٦.		
52	1	ମ୍ୟ	.5	· g ·		
53	<u>م</u>	170	<u> </u>	18		
5-1	2	113	1.5	11		
, 55	0	120	-0.5	12		
56		<b>म्</b> ह	- 0,5	- 4		
57	۵	পদ	-0.5	-η		
58	i	2.101	ي ،	SIS RAR		
. 59		131	- 0,5	Z9		
40	0	96	70,5	. 6	Y	N
emarks:	1 .					
Reviewed by	pecen			11-9~9 , Date	4	
TGF-006				<del></del>	09/93	

.

-----

12 Page 4: Mbf 11 ATGS #: FW-DAK

#### SMEAR COUNTING ANALYSIS REPORT

11.7.94 Date:A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.	1	nalveie	Perform	od by 4	· I. M	Fina hili
	COUNTING	SYSTEM	DATA	eu by	LCUP-SCI N	<u>II.C.I. G.V.I.X.</u>
INSTRUMENT ID: 99043		I	DETECTOR	ID: <u>43</u>	0-1 95	327
MDA: $\alpha 17$	βγ <u>18</u> βγ <u>197</u>	111				
PERFORMED BY: DAN SPICUZ	ZA					
Sample Count Time: <u>ZMIN</u>	P		Report			
α Background: <u>, 8</u> cpm	1		/ Backgro		1	
SAMPLE ID OR DESCRIPTION	GROSS a	COUNTS BY	NET C	OUNTS βγ	Act a	ivity βγ
61 .:	'n	94	. <u>Z</u>	-5	LUDA	- LUNA
62 - 2	Ζ.	<u> 95</u>	1.2			
63	0	116	-0.S	14		
	0	118	DIR	i L		
65	J	i Di	، ک	-,		
66	0	סוו	-D.R	8		
67.	l	াব	·Z	-3		
68	1	103	-Z ·	1		
69	1	Q3	. 2	-9		
70	C	46	. Z	-6		
71	O	ଟ୍ୟ	,2	- 3		
72	2	a1	1.2	- 5 -		
73	<u>ت</u>	14	-0.5	12		
_74	1	106	· . Z	ц		
-75		·016	ד,טד.	-6.		
76	0	ବବ	<u>م</u> . כ	- 3		•••
77	٦	201	בים-	3	•	·
78		116	-0.8	14		
	i	56	.Z.	·- 6	1.	
80	1	IDZ	.7	. 0		
Remarks:						
. Пан	Sprun			11-8-94	·	
Reviewed by	_ 1			<pre>\ Date</pre>		
ATGF-006					09/93	

ì

## Page 13 of 14. ATGS #: <u>EW-018</u>

#### SMEAR COUNTING ANALYSIS REPORT

11-7-94		noluoi-	D f		1 P. D.AK	1. 10/
Date: 12-6-94 in			Performe	ed by: <u>J</u>	Kelnu II.	inplace the
INSTRUMENT ID: 99043 EFICIENCIES: a 3570	βγ <u>is</u> 70 βγ 192 τ	7	DATA	ום: <u>או בוי</u>	<u>) 1 D918</u>	<u>13</u> Z7
Sample Count Time: <u>Z MIN</u>		ctivity	Report	In: Ø dpi	m 🗆 µCi	
a Background: <u>, S</u> cpm			/ Backgro			
SAMPLE ID OR DESCRIPTION	GROSS a	COUNTS βγ	NET C	OUNTS BY	Acti a	vity βγ
81	ì	103	: 2_	ł	CUDA	-UDA
87.	Ð	116	-0.3	14		
83	Z	109	i.Z.	<u>ل</u> ه ،		
31	٦	ЯZ	Z.Z	-10		
85 . 1	Z	93	1.8	-9		
84		1 <i>02</i>	-0.X	5		
ų 87	ם	71	-0.4	- 5		
98	۵	.96		·- 6		
78		116	- 2.2	14		
<b>R</b> Ŋ	D	100	-707.	- <u>z</u> :		
R	<u> </u>	109	-D.3			
92	3.		7.7_	<u> </u>		
93	0	103	D .Z	• 1		
94	D	<u><u> </u></u>	<u></u>	- 4		
-95	Z	as	1.2			
96	<u> </u>	95	-0.2	- 4		
97.	Ð	טסו	-0.K	<u>z</u>		·
98		117	-0'3	15		
99	0	120	- 0.2	15		
LOD CONTRACTOR	1	124	J.Z	; ZZ.	¥	L st
Remarks:	3.					
Reviewed by	Apri	LU		LLS-C Date	£ <del>f</del>	
ATC7-006					09/93	

Page 14 of 14. ATGS #: 54-018

### SMEAR COUNTING ANALYSIS REPORT

1

Date: 11-7-94	1	Analysis	Perform	ed by: 1	Richard	Rum
INSTRUMENT ID: <u>99043</u> EFICIENCIES: <u>a <u>35%</u> MDA: <u>a 12 DPM</u></u>	$\frac{\beta \gamma - 15}{\beta \gamma - 197}$	SYSTEM I %	DATA DETECTOR			
PERFORMED BY: D Spinis	μγ <u> </u>					•
Sample Count Time: 2 MIN.		Activity	Report	In: Ø dp	m 🗆 µCi	•
a Background: . 8 cpm		β	/ Backgro	ound: <u>10</u>	<u> </u>	m
SAMPLE ID OR DESCRIPTION	GROSS	COUNTS βγ	NET C	OUNTS βγ	Acti a	vity βγ
.ioi .:	i	172	.2	iΩ	< MTZA	יזתוא
_10Z	1	109	,7_	7	j	
103	0	114	-0.8	17		1-1
IM	1	118	.Z	16		+
105	1	i 17	. Z	15		
106	1	106	- Z.	Y		
107	1	109	.7.	R型 7	Y	$\square$
105	ס	מסו	-0.2	- z_	CMDA	CMDA
· · · · · · · · · · · · · · · · · · ·						
				:		P
				-		
		NAT				
.•		//				
/						
/			:		1.1 1	•
	<u> </u>					
Remarks:	· · · · · · · · · · · · · · · · · · ·					
Reviewed by	Are été			V-8-CI Date		
ATG7-006		·			09/93	

. .

RADIOLOGICAL SURVEY REPORT ATGS #: EM 029 DATE 11 4 94 INSTRUMENTATION USED TIME MODEL S/N EFF.% 0 800 BKRD CAL. DUE DATE LADLUN 3 LODUM 19 LUDUM 3 102478 78102. _7<u>25</u>EM 15 wsfar 1072 SURVEYOR Rechard X Kumult 4.1.95 NA 4.5.95 9713.1 3192 Ventilution Rm. 971243 LOCATION _ Azri 4.3.95 43-65 2090 20,6929 MA NR 99043 NA 2929 N.C REVIEWED BY 360Tr CK 1995 - elser inu : 8 BT ageni Smear Locations Circled; Dose Rates= mR/hr PURPOSE OF SURVEY: CONTAININATION, DONE RATES OF THE JI92 VENTILATION RM. SMEAR RESULTS RESULTS = DPM/100cm² UNLESS NOTED ¨ Βγ # α THIS IS A SURVEY DE THE VENTILATION RM. IT INCLUDES A SMEAR SURVEY, DOSE RATES IN MICKO & PER HOUR AND CONTACT READINGS IN AREA . Ĺ Λ . . . . . ÷: 1 Remarks: ___ SEE ATTALHED FOR SMERR LOLATIONS AND RESULTS. AT07-001 09/93 •

Page 1 of  $\frac{9}{4}$ .

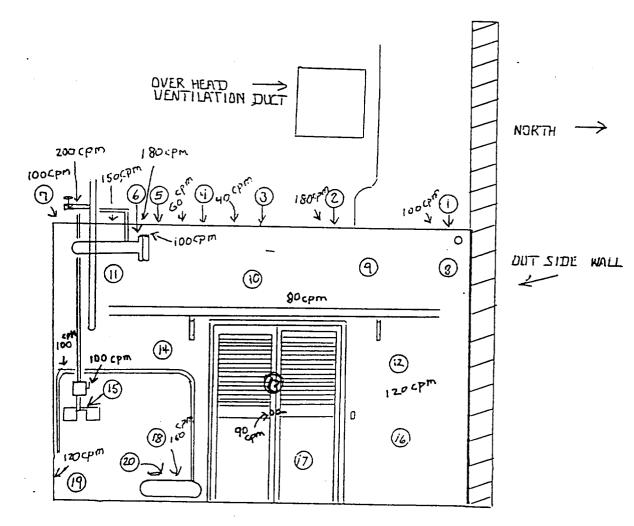
Page ____ of 9.

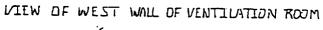
DATE 11 4 94		INST	RUMENTA			
TIME D SOC	MODEL	S/N	EFF.%	BKRD	1	DUE DA
SURVEYOR P. L. UN MI	LADLUN 7	122428	1072	_72 <em< td=""><td></td><td>DUE DA</td></em<>		DUE DA
LOCATION 3192 Ventilation Rm.	CUDIUM 19	<u>78:02.</u> 9713:1_	47121 3W	15. A.	4	<u> </u>
REVIEWED BY ALIGNER	43-65	<u>996929</u>	2090 3670 W	ACO -		N K 2 95
Smear Locations Circled; Dose	Rates=	mR/hr	: 8 B-F	G.g. Tim		VA
PURPOSE OF SURVEY: CONTRIMI	ת נהסודהא	DIE ROTT	SOF	SMF	AR RES	
THE JI92 VENTILAT	MA NGI			RESULI	S = DP	1/100cm ³
			\ 		ILESS NO	
THIS IS A SURVEY	DF TH	E YENTILA	TION	#	^т Вү	α
RM. IT INCLUDES RATES IN MIKED R	P. SMIFOR	Criminer.	5000			
READINGS IN AREA		NND (DI	UTACT			
					<u> </u>	/
						17
			•			11
						1/
						1
						1.
			F		/	/
· · · ·		•	·		NZ	1
			.		- IVA	
			-		_/	
			<u>}</u>		$\frac{1}{1}$	
					/	
-			-			
						<u> </u>
						ļ
	•		:			
Remarks: <u>SEE ATTALHED FOR</u>	SMERR L	DENTIONS	[	/		
AND ACSULTS.			F /			<u>†                                    </u>

. . Page 3 of 9.

Rich

RADIOLOGICAL SURVEY REPORT





(FROM INSIDE ROOM)

· NDTE:

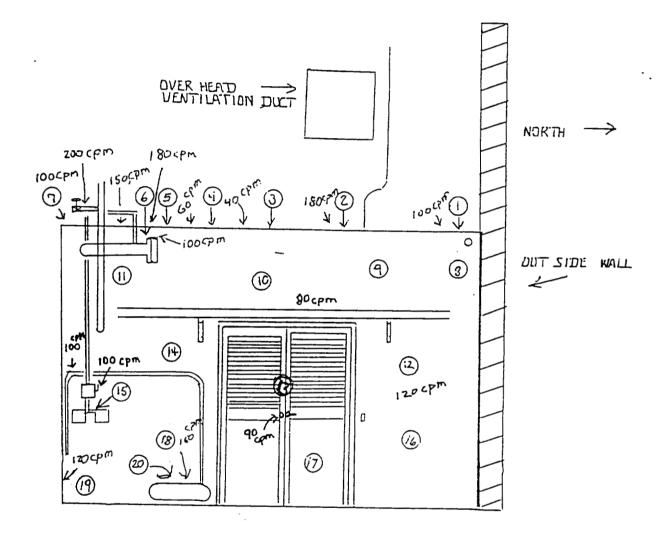
SMEAR LOCATIONS
 ALL SMEARS IDD CM²
 ALL PROBE READING TAKEN AT CONTACT TO SURFACE

Page 3 of 9.

Bill

RADIOLOGICAL SURVEY REPORT

۰.



VIEW OF WEST WALL OF VENTILATION ROOM

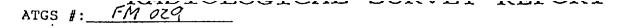
(FROM INSIDE ROOM)

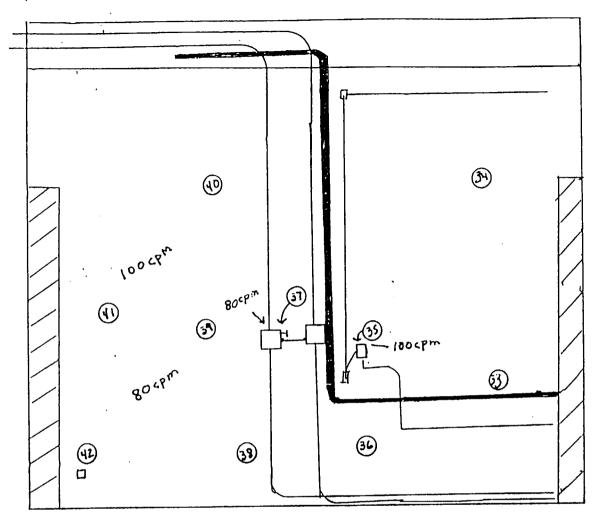
· NOTE :

٠.

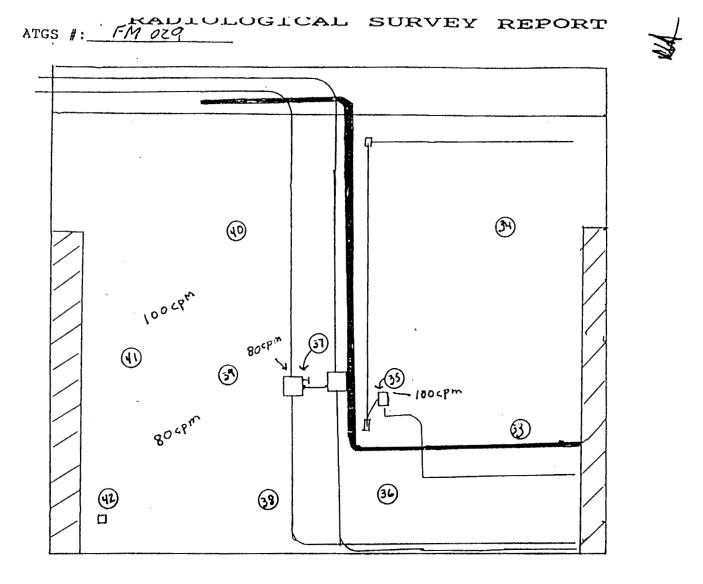
1

O = <u>SMEAR LDCATIONS</u> <u>ALL SMEARS IDD CM²</u> <u>ALL PROBE READING TAKEN AT CONTACT TO SURFILE</u>





VIEW DE NORTH WALL OF VENTILATION ROOM



VIEW OF NORTH WALL OF VENTILATION ROOM

Page of 7 ATGS #: EM-CAQ

# SMEAR COUNTING ANALYSIS REPORT

Date: 11-22-QU

Analysis Performed by:

COUNTING SYSTEM DATA INSTRUMENT ID: 9904-7 DETECTOR ID: DACTA EFICIENCIES: α BY 1804 MDA: BY 18-1dqu  $\alpha \setminus \Lambda$ PERFORMED BY: Þ and Sample Count Time:

Activity Report In: Scdpm 🗆 µCi

α	Backgrou	nd:	_8	CPM		6	V Backer			
	SAMPLE I	D OR	DESCRI	PTION	GROSS	COUNTS		ound:		
					aa	βγ		COUNTS BY	Act:	ivity βγ
L					. 1	116	·Z	18	<mda< td=""><td><mda< td=""></mda<></td></mda<>	<mda< td=""></mda<>
2					Ð	83	-0.8	-13	KMDA	< MDA
3					0	104	-0.8	8	KMDA	< MDA
4					2.5	100	1.7	22	< MDA	<mda< td=""></mda<>
5					.5	97,5	7.3	1.5	< MDA	<mda< td=""></mda<>
6					.5	104	-0.3	8	LMDA	
2					1.5	103	0.7	7	CMDA	< MDA
8					1	116	.2	18	ZMDA	< MDA
9					.5	91,5	-03	-4.5	LMDA	CMER
10					0	91,5	-0.8	-4.5	2 MDA	SMDA
11					0	94	-0.8	2	< MDA	< MDA
12		<u>.</u>			_/	88,5	. 2	7.5	LMDA	< MOA
13						100	.2	4	LMDA	2 MPA
<u>()</u>					/	123,5	.2	27,5	L-MDA	<mda< td=""></mda<>
15 16						107	.2	11	ZMDA	LMDA
<u>15</u> 17:					.5	91	-0.3	-5	<mdr.< td=""><td>MDA</td></mdr.<>	MDA
18		•		·-#::	.5	92.5	=0,3	-3.5	<mda.< td=""><td>CMDA</td></mda.<>	CMDA
19					.5	82.5	-0.5			< MDA
ета	irks:			l_	<u> </u>	91.5	-0.8	-4.5	< MOA &	MDA

un • • • • Reviewed by . . . . . .

۰. ۰ 1-e-act

ATG7-006

09/93

of 7. Page St

ATGS #: EW-CAR

# SMEAR COUNTING ANALYSIS REPORT

Date: 11-22-94	Analysis Performed by: Richard Running
INSTRUMENT ID: 99047 EFICIENCIES: a 5590 MDA: allabum PERFORMED BY: D. Spice	COUNTING SYSTEM DATA DETECTOR ID: 098317 BY 1890 BY 1870
Sample Count Time:	Activity Report In: Cdpm D µCi

GROSS	COUNTS βy //6		DUNTS βy	Acti	
l			- 19		βY
		·2	18		<mda< td=""></mda<>
Ð	83	-0.8			<mda< td=""></mda<>
0	104	-0.8		<mda< td=""><td><mda< td=""></mda<></td></mda<>	<mda< td=""></mda<>
2.5	100	1.7	22	<mda< td=""><td>ZMDA</td></mda<>	ZMDA
.5	97,5	7.3	1.5	< MDA	<mda< td=""></mda<>
.5	104	-0.3	8	ZMDA	<nda< td=""></nda<>
1.5	103	07	7		<mda< td=""></mda<>
		.2	18	·	< MDA
	1	-0,3			CARDA
	<u></u>	-0.8		<u> </u>	MDA
0	<u> </u>				< MDA
				!	
: /	<u></u>		·····	<u> </u>	2 MPA
/	1			1	ļ
<i>r</i>	1			ļ	
					<u>}</u>
			925~	-MDD	
0	91.5	-0.8	-4.5	<u></u>	
	0 2.5 .5 .5 1.5 1.5 0 0 1 1 1 1 .5 .5 .5 .5	0 104 2.5 100 .5 97.5 .5 104 1.5 103 1 116 .5 91.5 0 91.5 0 91.5 0 91.5 1 100 1 123.5 1 107 .5 91 .5 91 .5 92.5 .5 82.5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

.....

Reviewed by 1.00

Date

ATGF-006

09/93

Page 9 of 9. ATGS #: <u>FM 029</u>

# SMEAR COUNTING ANALYSIS REPORT

•.

Date: 11-4-94						~
	A	nalysis	Performe	ed by: <u>/</u>	Packing P	A Kurry
INSTRUMENT ID: $\frac{99043}{5}$ EFICIENCIES: $a = 367c$ $\beta$	V 1897		DATA DETECTOR	1D: <u>4</u> 3-10	p-i /0983	י <u>52</u> ק
Sample Count Time: 2 MIN		ctivity	Report 1	In: Da do	m 🗆 µCi	
a Background: <u>9</u> cpm			Backgro			n
SAMPLE ID OR DESCRIPTION	GROSS (	COUNTS BY	NET C	OUNTS BY	Acti a	vity βγ
143 10	1.	39.5	0,1	9.5	LMDA	ZMDA
115 q1	1.5	98.	0.6	-1	ZMDR	LMDA
47. 47.	0	92.5	-0.9	-6:5	CMDA	LMDA
43 43	,5	99.5	-0,4	0.5	<midd a<="" td=""><td>MON</td></midd>	MON
49 44	,5	94.5	-0,4	-4.5	< MDA	< <i>mD</i> A
15 15	1.5	98,5	0.6	-0.5	< NDA	<mpa< td=""></mpa<>
46	1.5	98,5	0,6	-0,5	CMDA	<n da<="" td=""></n>
47	.5	105.5	-0.4	6.5	LMBA	~MDA
19 4Y	1.5	103.5	0.6	4.5	CMOA	くへわ
49	,5	96,	-0,4	-,3	2 MDR	man
50 50	0	104.	-0.9	5	< MDA	< MDA
51	0	99.5	-0.9	.5	< MDA	KMDA
57 57	1.5	100	0.6	-49,	ZMDD	
\$3 53	1	103.5	,1	4.5	ZMON	< MDA
0						
		· · · · · · · · · · · · · · · · · · ·	<b>.</b>			
			A		<u> </u>	
		11				
		5				
Remarks:		·····				

Reviewed by

U-Q-q Date

ATG7-006

~

.

. ۰.

.

٠.

09/93

Page 9 of 9. ATGS #: <u>FAI 029</u>

SMEAR COUNTING ANALYSIS REPORT

.

	COUNTING					
Date: 11.4-94	A	nalysis	Perform	ed by: 🥂	Packer, P	A Ruch
INSTRUMENT ID: <u>99095</u> EFICIENCIES: a <u> 367</u>	COUNTING βγ897 βγ897	SYSTEM 1 D			2-i /0983	
ample Count Time: Z MIN		ctivity	Report 1	In: 🛱 dp	m 🗆 µCi	J
a Background: <u>9</u> cpm			Backgro			n
SAMPLE ID OR DESCRIPTION	GROSS a	COUNTS BY	NET C a	OUNTS BY	Acti a	vity βγ
10	1.	39.5	0.1	9,5	LMDA	2MDA
A16 41 4 4 91	1.5	98.	0.6	- 1	ZMDA	LMDA
HE 4Z.	0	92.5	-0.9	-6:5	CMDA	LNDA
13 43	15	99.5	-0:4	0.5	<nda -<="" td=""><td></td></nda>	
iji	,5	94.5	-0,4	-4,5	< MDA	< <i>mD</i> A
15	1.5	98,5	0.6	-0.5	LNDA	
<b>B</b> 46	1.5	98,5	0,6	-0,5	CMDA	<nda< td=""></nda<>
<b>9</b> 47	.5	105.5	-0.4	6.5	<b>LM</b> IA	~MDA
47. 6 47	1.5	103.5	0.6	4.5	CMOA	< MDR
al q	,5	96,	-0,4	-,3	L MOR	CMDA
50	0	104.	-0,9	5	< MDA	< MDA
51	0	99.5	-0.9	.5	< MDA	KMDA
52	1.5	100	0.6	-49.	< MDD	
3 53	1	103.5	,1	4.5	ZMON	< MDA
a de la companya de l				ļ	<u> </u>	
			ļ			
			LA			
		11		1		
		m-				
Remarks:						
	•					

Reviewed by Special

11-9-94 Date

ATGF-006

.

.

.

THOMAS J. O'DOU, CHP 135 South Maple Street Oak Harbor, Ohio 43449-1428 (419) 898-1527 Home (419) 855-7674 - 855-3006 Work

Certified Health Physicist Manager, Health Physics Technical Support Field Operations Radiation Safety Officer

EDUCATION:

University of Lowell, Lowell, MA Bachelor of Science, Radiological Health Physics, 1974 Master of Science, Radiological Sciences and Protection, 1981

EXPERIENCE:

10/92 - Present Allied Technology Group, Inc. Ohio Technical Support Office 1515 Main Street Genoa, Ohio 43430

> Responsibilities: Provide Health Physics technical support for decontamination, decommissioning, radioactive waste volume reduction, instrumentation use, and instrumentation calibration. Develop and conduct training programs for customers as needed. Assess company radiation protection programs and customer programs as required. Project dosimetry, field operations procedures review and approval.

Concurrent RAD*WARE Health Physics Computer Software 135 South Maple Street Oak Harbor, Ohio 43449

> Vice President/Technical Programmer. Maintain technical cognizance of health physics computer ventures. Design and develop applications software to assist the radiation safety industry. Provide technical support to current customers at >300 facilities around the world.

6/87 - 8/92 Toledo Edison, Davis-Besse Nuclear Power Station Oak Harbor, Ohio

> (8/90 - 8/92) Senior Radiological Assessor, Independent Safety Engineering Group

Responsibilities: Through continuous assessment of radiological control operations, provide evaluation of program direction and make recommendations for improvement. Provide technical and administrative assistance as necessary to effect improvement of the

#### THOMAS J. O'DOU, CHP

# (419) 855-7674 - 855-3006 Work

Certified Health Physicist Manager, Health Physics Technical Support Field Operations Radiation Safety Officer

EDUCATION:

University of Lowell, Lowell, MA Bachelor of Science, Radiological Health Physics, 1974 Master of Science, Radiological Sciences and Protection, 1981

#### EXPERIENCE:

10/92 - Present Allied Technology Group, Inc. Ohio Technical Support Office 1515 Main Street Genoa, Ohio 43430

> Responsibilities: Provide Health Physics technical support for decontamination, decommissioning, radioactive waste volume reduction, instrumentation use, and instrumentation calibration. Develop and conduct training programs for customers as needed. Assess company radiation protection programs and customer programs as required. Project dosimetry, field operations procedures review and approval.

Concurrent

RAD*WARE Health Physics Computer Software 135 South Maple Street Oak Harbor, Ohio 43449

Vice President/Technical Programmer. Maintain technical cognizance of health physics computer ventures. Design and develop applications software to assist the radiation safety industry. Provide technical support to current customers at >300 facilities around the world.

6/87 - 8/92

Toledo Edison, Davis-Besse Nuclear Power Station Oak Harbor, Ohio

(8/90 - 8/92) Senior Radiological Assessor, Independent Safety Engineering Group

Responsibilities: Through continuous assessment of radiological control operations, provide evaluation of program direction and make recommendations for improvement. Provide technical and administrative assistance as necessary to effect improvement of the

#### EXPERIENCE - continued

6/75 - 10/75	Temple University Philadelphia, PA
	Health Physicist, Radiation Safety Office
6/74 - 8/74	Yankee Atomic Electric Company Rowe, MA
	Co-Op Student, Health Physics Section
6/73 - 8/73	Virginia Electric and Power Company, Surry Nuclear Plant Surry, VA
	Co-Op Student, Health Physics Section

#### CERTIFICATIONS, AWARDS, MEMBERSHIPS

American Board of Health Physics Certification, 1990 National Registry of Radiation Protection Technologists Registration, 1982 Employee of the Month, Davis-Besse NPS, February 1992 President, Northern Ohio Chapter Health Physics Society, 1994 Plenary Member of Health Physics Society since 1976 Member Great Lakes Chapter of Health Physics Society Member American Nuclear Society Assigned to ANS Special Committee for Development of Decommissioning Standards Alumni of Omicron PI Fraternity, University of Lowell

#### PROFESSIONAL COURSES AND SYMPOSIA

Managing Radioactive and Mixed Waste, HPS Midyear, 2/94 First Annual Decommissioning Forum, Jacksonville, FL, 8/94 Idaho Health Physics Society Midyear, 12/93 NRC Meeting, Dallas, TX 3/93 Fermeo Waste Recycling Workshop, Cincinnati, OH, 10/93 Small Business Management, 1992-1993 Environmental Health Physics, HPS Midyear, 1/93 Operational Radiation Measurements, HPS Midyear, 1/92 Communicating to Manage Performance, Centerior Energy, 9/91 Management II, University of Michigan & Centerior Energy, 8/91 Principles of Supervision, Centerior Energy, 5/91 Health Physics Data Management Using Personal Computers, TMS, 5/91 10CFR20 Changes and New NCRP Guidance, HPS Midyear, 1/91 ODCM/RETS Training Course, Quantum Technology, 12/89 Improving Presentation Skills, Toledo Edison, 9/89 Survival Skills For Managers, Toledo Edison, 6/89 Kepner-Tregoe Problem Solving and Decision Making, 11/88

#### EXPERIENCE - continued

6/75 - 10/75	Temple University Philadelphia, PA
	Health Physicist, Radiation Safety Office
6/74 - 8/74	Yankee Atomic Electric Company Rowe, MA
-	Co-Op Student, Health Physics Section
6/73 - 8/73	Virginia Electric and Power Company, Surry Nuclear Plant Surry, VA
	Co-Op Student, Health Physics Section

#### CERTIFICATIONS, AWARDS, MEMBERSHIPS

American Board of Health Physics Certification, 1990 National Registry of Radiation Protection Technologists Registration, 1982 Employee of the Month, Davis-Besse NPS, February 1992 President, Northern Ohio Chapter Health Physics Society, 1994 Plenary Member of Health Physics Society since 1976 Member Great Lakes Chapter of Health Physics Society Member American Nuclear Society Assigned to ANS Special Committee for Development of Decommissioning Standards Alumni of Omicron PI Fratemity, University of Lowell

#### PROFESSIONAL COURSES AND SYMPOSIA

Managing Radioactive and Mixed Waste, HPS Midyear, 2/94 First Annual Decommissioning Forum, Jacksonville, FL, 8/94 Idaho Health Physics Society Midyear, 12/93 NRC Meeting, Dallas, TX 3/93 Fermco Waste Recycling Workshop, Cincinnati, OH, 10/93 Small Business Management, 1992-1993 Environmental Health Physics, HPS Midyear, 1/93 Operational Radiation Measurements, HPS Midyear, 1/92 Communicating to Manage Performance, Centerior Energy, 9/91 Management II, University of Michigan & Centerior Energy, 8/91 Principles of Supervision, Centerior Energy, 5/91 Health Physics Data Management Using Personal Computers, TMS, 5/91 10CFR20 Changes and New NCRP Guidance, HPS Midyear, 1/91 ODCM/RETS Training Course, Quantum Technology, 12/89 Improving Presentation Skills, Toledo Edison, 9/89 Survival Skills For Managers, Toledo Edison, 6/89 Kepner-Tregoe Problem Solving and Decision Making, 11/88

PAPERS - continued

SIMPLE EVALUATION OF EXPECTED vs. ACTUAL EFFLUENT MONITOR RESPONSE; Presented at the HPS Midyear Symposium, Dearborn, MI, January 1992.

DK - A COMPUTER PROGRAM FOR SIMPLE RADIOACTIVE DECAY CALCULATIONS; Copyright 1991.

SEARCH - A COMPUTER PROGRAM FOR ACCESSING RADIONUCLIDE INFORMATION; Copyright 1991.

RADIOLOGICAL CONTROLS AT DAVIS-BESSE NUCLEAR POWER STATION; Presented at the Medical College of Ohio, Physician Seminar.

RADON: FACT OR FICTION; Ohio Engineer, 10/89. Presented at the OE Public Information Forum, Columbus, OH 5/90

COMPUTER PROGRAMS FOR PREPARATION TO TAKE ABHP PART 1 (HPEXAM) AND THE NRRPT (RPTEXAM) EXAMINATIONS; Copyright 1989, 1990, 1991.

ALARA CONTROL - A COMPUTER PROGRAM FOR DOSE ESTIMATION OF A SUBMARINE WORK PACKAGE; Portsmouth Naval Shipyard, 1987.

CHARACTERIZATION OF THE UNIFORMITY INDEX AS USED TO DETERMINE THE PRESENCE OF POINT SOURCES OF RADIOACTIVITY IN A FOUR DETECTOR WASTE COUNTING SYSTEM; Portsmouth Naval Shipyard, 1985.

THE CALCULATION OF SKIN DOSE DUE TO BETA EMITTING RADIOACTIVITY ON THE SKIN; Portsmouth Naval Shipyard, 1983.

<u>A PROGRAM FOR RADIATION SAFETY TRAINING OF RADIOGRAPHY PERSONNEL;</u> MASTER OF SCIENCE THESIS, University of Lowell, 1981. PAPERS - continued

٠.

SIMPLE EVALUATION OF EXPECTED vs. ACTUAL EFFLUENT MONITOR RESPONSE; Presented at the HPS Midyear Symposium, Dearborn, MI, January 1992.

DK - A COMPUTER PROGRAM FOR SIMPLE RADIOACTIVE DECAY CALCULATIONS; Copyright 1991.

SEARCH - A COMPUTER PROGRAM FOR ACCESSING RADIONUCLIDE INFORMATION; Copyright 1991.

RADIOLOGICAL CONTROLS AT DAVIS-BESSE NUCLEAR POWER STATION; Presented at the Medical College of Ohio, Physician Seminar.

RADON: FACT OR FICTION; Ohio Engineer, 10/89. Presented at the OE Public Information Forum, Columbus, OH 5/90

COMPUTER PROGRAMS FOR PREPARATION TO TAKE ABHP PART 1 (HPEXAM) AND THE NRRPT (RPTEXAM) EXAMINATIONS; Copyright 1989, 1990, 1991.

ALARA CONTROL - A COMPUTER PROGRAM FOR DOSE ESTIMATION OF A SUBMARINE WORK PACKAGE; Portsmouth Naval Shipyard, 1987.

CHARACTERIZATION OF THE UNIFORMITY INDEX AS USED TO DETERMINE THE PRESENCE OF POINT SOURCES OF RADIOACTIVITY IN A FOUR DETECTOR WASTE COUNTING SYSTEM; Portsmouth Naval Shipyard, 1985.

THE CALCULATION OF SKIN DOSE DUE TO BETA EMITTING RADIOACTIVITY ON THE SKIN; Portsmouth Naval Shipyard, 1983.

A PROGRAM FOR RADIATION SAFETY TRAINING OF RADIOGRAPHY PERSONNEL; MASTER OF SCIENCE THESIS, University of Lowell, 1981.

10/92 - 10/23/92	Allied Technology Group • Sunflower Ammunitions Depot DeSoto, KS
	ANSI 3.1 Senior Health Physics Technician. Research and development for the Filtration of depleted uranium from oil; system setup and monitoring of radiological conditions.
2/92 - 7/92	DDH Nuclear, Inc. • Battelle Memorial Institute, Columbus, Ohio
	ANSI 3.1 Senior Health Physics Technician. Support for the Decon- tamination/Decommissioning program. In charge of free release program and procedure writing for D&D decon effort.
8/91 - 10/91	Nuclear Energy Services, Inc. • General Electric Tungsten Wire Plant, Lighting Group, Cleveland, Ohio
	ANSI 3.1 Senior Health Physics Technician. Performed characterization of facility using radioactive thorium in a process to manufacture thoriated tungsten wire. Included surveys using alpha and beta gamma instruments, air sampling and smear counting.
5/91 - 6/91	Nuclear Energy Services, Inc. • Brown St. Plant, St. Louis, MO
	Environmental Technician. Demonstration of process used to remove P.C.B.'s from concrete floors using a blast tract. Sampling of concrete and air. Decontamination of plant. Recertified in Personnel Protection and Safety for Hazardous Waste Removal.
8/90 - 1/91	Kelly Kote Instrument Company • Cincinnati, Ohio
	ANSI 3.1 Senior Health Physics Technician. Final release survey for EPA project. Demolition of final facility.
5/90 - 7/90	General Electric Aircraft Engine Plant • Cincinnati, Ohio
	ANSI 3.1 Senior Health Physics Technician. Final release surveys for building.
3/89 - 12/89	Applied Technology Group • Sprague Electric North Adams, MA
	ANSI 3.1 Senior Health Physics Technician. Decommissioning of Piezoelectric Ceramic Capacitor facility using uranium oxide powder in the process. Routine radiation and contamination surveys and volatile organic contaminants. Asbestos surveys.

10/92 - 10/23/92	Allied Technology Group • Sunflower Ammunitions Depot DeSoto, KS
	ANSI 3.1 Senior Health Physics Technician. Research and development for the Filtration of depleted uranium from oil; system setup and monitoring of radiological conditions.
2/92 - 7/92	DDH Nuclear, Inc. • Battelle Memorial Institute, Columbus, Ohio
	ANSI 3.1 Senior Health Physics Technician. Support for the Decon- tamination/Decommissioning program. In charge of free release program and procedure writing for D&D decon effort.
8/91 - 10/91	Nuclear Energy Services, Inc. • General Electric Tungsten Wire Plant, Lighting Group, Cleveland, Ohio
	ANSI 3.1 Senior Health Physics Technician. Performed characterization of facility using radioactive thorium in a process to manufacture thoriated tungsten wire. Included surveys using alpha and beta gamma instruments, air sampling and smear counting.
5/91 - 6/91	Nuclear Energy Services, Inc. • Brown St. Plant, St. Louis, MO
	Environmental Technician. Demonstration of process used to remove P.C.B.'s from concrete floors using a blast tract. Sampling of concrete and air. Decontamination of plant. Recertified in Personnel Protection and Safety for Hazardous Waste Removal.
8/90 - 1/91	Kelly Kote Instrument Company • Cincinnati, Ohio
	ANSI 3.1 Senior Health Physics Technician. Final release survey for EPA project. Demolition of final facility.
5/90 - 7/90	General Electric Aircraft Engine Plant • Cincinnati, Ohio
	ANSI 3.1 Senior Health Physics Technician. Final release surveys for building.
3/89 - 12/89	Applied Technology Group • Sprague Electric North Adams, MA
	ANSI 3.1 Senior Health Physics Technician. Decommissioning of Piezoelectric Ceramic Capacitor facility using uranium oxide powder in the process. Routine radiation and contamination surveys and volatile organic contaminants. Asbestos surveys.

piping removal, reactor sump desludging, under vessel hydrolasing, tool decontamination and waste packaging, decontamination of chemical decon system heat exchanger using freon pump and filtration system, scram volume header hydrolasing.

7/83 - 8/83 Nuklearna Electrarna Krsko • KRSKO Yugoslavia

Decontamination Supervisor/Junior Health Physics Technician. Supervised the decontamination of reactor cavity using strippable coating method. Upon completion, upgraded to Junior Technician performing stay time calculations, dosimetry package setup, dose tabulation in support of steam generator modification project.

4/83 - 12/78 Decontamination Technician for the following Utilities:

Boston Edison, Pilgrim Nuclear Power Station General Public Utilities, Three Mile Island Nuclear Station Connecticut Yankee Atomic Power Company, Haddam Neck Station Carolina Power and Light Company, Brunswick Steam & Generation

#### REFERENCES

4

Furnished Upon Request

piping removal, reactor sump desludging, under vessel hydrolasing, tool decontamination and waste packaging, decontamination of chemical decon system heat exchanger using freon pump and filtration system, scram volume header hydrolasing.

# 7/83 - 8/83 Nuklearna Electrarna Krsko • KRSKO Yugoslavia

Decontamination Supervisor/Junior Health Physics Technician. Supervised the decontamination of reactor cavity using strippable coating method. Upon completion, upgraded to Junior Technician performing stay time calculations, dosimetry package setup, dose tabulation in support of steam generator modification project.

<u>.</u>

# 4/83 - 12/78 Decontamination Technician for the following Utilities:

Boston Edison, Pilgrim Nuclear Power Station General Public Utilities, Three Mile Island Nuclear Station Connecticut Yankee Atomic Power Company, Haddam Neck Station Carolina Power and Light Company, Brunswick Steam & Generation

#### REFERENCES

Furnished Upon Request

4

	2/91 - 3/91	Public Service Electric & Gas, Salem Generating Station
		Junior Health Physics Technician. Pre-decon survey and post-decon surveys. Operation of high/low volume air samplers. Dose rating trash and PC's with R02, R02A and E520. Frisking material out of the RCA and operation of Control Point computer stations.
	12/90 - 2/91 9/89 - 11/89	Public Service Electric & Gas, Hope Creek Generating Station
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Junior Health Physics Technician. Pre-decon survey and post-decon surveys. Operation of high/low volume air samplers. Dose rating trash and PC's with R02, R02A and E520. Frisking material out of the RCA and operation of Control Point computer stations.
	4/89 - 6/89	Public Service Electric & Gas, Salem Generating Station
	-	Junior Health Physics Technician. Pre-decon survey and post-decon surveys. Operation of high/low volume air samplers. Dose rating trash and PC's with R02, R02A and E520. Coverage for the releasing of Radioactive contaminated materials and equipment from containment and RCA. Assisted in underwater diving operations, dress and undress of Steam Generator Jumpers, assistance to Chemistry and Health Physics Departments in chloride swipe in containment under power. Experience with Tri-Nuke System, RCP decontamination, tool and equipment decontamination, Alara Strippable coating and Isolock coating, footage recovery and Radwaste disposal.
	1/89 - 3/89	Westinghouse contracted to Con-Edison Power Co., Indian Point II
		Radwaste Support Specialist. Decontamination and control coverage of lead shielding blankets inside pit using an air line respirator as needed for job. Trained in usage of forklifts applicable to Radwaste only. Specialized in usage of Freon Units and Bead Blasting.
•	9/88 - 12/88	Arkansas Power & Light, Arkansas Nuclear I & II
		Senior Decontamination Support Specialist. Refueling cavity decon- tamination via strippable paint, hydrolazing of reactor vessel, steam generator tube sleeving decontamination, control floor scrubber operation, dry and wet vacuum decontamination. Control coverage of valve seal replacement, material and equipment for Quadrex. Skilled on Freon Units, Glove Units and operation of Underwater Vacuum Cleaning System.
		(10/87 - 11/87) - Senior Decontamination Support Specialist, Training

-

•

•

---

.

• .

	2/91 - 3/91	Public Service Electric & Gas, Salem Generating Station
		Junior Health Physics Technician. Pre-decon survey and post-decon surveys. Operation of high/low volume air samplers. Dose rating trash and PC's with R02, R02A and E520. Frisking material out of the RCA and operation of Control Point computer stations.
	12/90 - 2/91 9/89 - 11/89	Public Service Electric & Gas, Hope Creek Generating Station
- -	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Junior Health Physics Technician. Pre-decon survey and post-decon surveys. Operation of high/low volume air samplers. Dose rating trash and PC's with R02, R02A and E520. Frisking material out of the RCA and operation of Control Point computer stations.
	4/89 - 6/89	Public Service Electric & Gas, Salem Generating Station
		Junior Health Physics Technician. Pre-decon survey and post-decon surveys. Operation of high/low volume air samplers. Dose rating trash and PC's with R02, R02A and E520. Coverage for the releasing of Radioactive contaminated materials and equipment from containment and RCA. Assisted in underwater diving operations, dress and undress of Steam Generator Jumpers, assistance to Chemistry and Health Physics Departments in chloride swipe in containment under power. Experience with Tri-Nuke System, RCP decontamination, tool and equipment decontamination, Alara Strippable coating and Isolock coating, footage recovery and Radwaste disposal.
	1/89 - 3/89	Westinghouse contracted to Con-Edison Power Co., Indian Point II
		Radwaste Support Specialist. Decontamination and control coverage of lead shielding blankets inside pit using an air line respirator as needed for job. Trained in usage of forklifts applicable to Radwaste only. Specialized in usage of Freon Units and Bead Blasting.
	9/88 - 12/88	Arkansas Power & Light, Arkansas Nuclear I & II
		Senior Decontamination Support Specialist. Refueling cavity decon- tamination via strippable paint, hydrolazing of reactor vessel, steam generator tube sleeving decontamination, control floor scrubber operation, dry and wet vacuum decontamination. Control coverage of valve seal replacement, material and equipment for Quadrex. Skilled on Freon Units, Glove Units and operation of Underwater Vacuum Cleaning System.
		(10/87 - 11/87) - Senior Decontamination Support Specialist, Training

--

.

.....

----

DANIEL M. SPICUZZA

#### WORK EXPERIENCE

#### 30 Nov 92 - Present

Location:

Randolph A.F.B. San Antonio, TX

Defense Logistics Agency Superfund Site, DeSoto, KS Defense Logistics Agency Curtis Bay Depot, Baltimore, MD Lake City Army Ammunition Plant, Independence, MO Sacramento Army Depot, Sacramento, CA Yuma Proving Grounds, Yuma, AZ

Responsibilities: ANSI 3.1 Senior Radiation Protection Technician Supervisor. Providing radiological/safety job supervision for the recovery and packaging of buried radioactive waste, solidification of oil contaminated with depleted uranium and solvents, and decontamination of building contaminated with monazite sand containing natural thorium, radiological characterization c ammunition plant firing range, and decontamination of radium contaminated laboratory, removal and bulk packaging of depleted uranium contaminated soil. Duties also include: writing of procedures, final reports, performance of final release surveys, forklift operation, and operation of distillation uni for the recovery of solvents from contaminated oil.

Employed by: Allied Technology Group Inc.

#### 19 Oct 92 - 23 Oct 92

Location: Defense Logistics Agency Superfund Site, DeSoto, KS

Responsibilities: ANSI 3.1 Senior Radiation Protection Technician. Performed research and development for the filtration of depleted uranium from used oil. Duties included: system setup and operation, monitoring of radiological conditions. Employed by: Allied Technology Group Inc.

# 29 Sept - 16 Oct 92

Location: Sprague Electric Co. North Adams, MA

Responsibilities: ANSI 3.1 Senior Radiation Protection Technician. Performed contamination surveys for the unconditional free release of empty 55 gallon drums and equipment. Employed by: DDH Nuclear Inc.

## 12 Feb 92 - 31 July 92

Location: Battelle Memorial Laboratories Decontamination and Decommissioning Project, Columbus, OH

Responsibilities: ANSI 3.1 Senior Radiation Protection Technician. Provided job coverage of waste compacting and decontamination crews. Also performed routine and job coverage radiological surveys, procedure writing, setup of computer systems for data transfer and storage, and radiological surveillance to ensure compliance with 10 CFR 20 and DOE Order 5480.11. Employed by: DDH Nuclear Inc.

# 17 Jan 92 - 10 Feb 92

Responsibilities: Performed asbestos and lead paint abatement. Employed by: Associated Thermal Services Inc.

DANIEL M. SPICUZZA

# WORK EXPERIENCE

# 30 Nov 92 - Present

Location:

Randolph A.F.B. San Antonio, TX

Defense Logistics Agency Superfund Site, DeSoto, KS Defense Logistics Agency Curtis Bay Depot, Baltimore, MD Lake City Army Ammunition Plant, Independence, MO Sacramento Army Depot, Sacramento, CA Yuma Proving Grounds, Yuma, AZ

Responsibilities: ANSI 3.1 Senior Radiation Protection Technician Supervisor. Providing radiological/safety job supervision for the recovery and packaging of buried radioactive waste, solidification of oil contaminated with depleted uranium and solvents, and decontamination of building contaminated with monazite sand containing natural thorium, radiological characterization of ammunition plant firing range, and decontamination of radium contaminated laboratory, removal and bulk packaging of depleted uranium contaminated soil. Duties also include: writing of procedures, final reports, performance of final release surveys, forklift operation, and operation of distillation unit for the recovery of solvents from contaminated oil.

Employed by: Allied Technology Group Inc.

# 19 Oct 92 - 23 Oct 92

Location: Defense Logistics Agency Superfund Site, DeSoto, KS

Responsibilities: ANSI 3.1 Senior Radiation Protection Technician. Performed research and development for the filtration of depleted uranium from used oil. Duties included: system setup and operation, monitoring of radiological conditions. Employed by: Allied Technology Group Inc.

# 29 Sept - 16 Oct 92

Location: Sprague Electric Co. North Adams, MA

Responsibilities: ANSI 3.1 Senior Radiation Protection Technician. Performed contamination surveys for the unconditional free release of empty 55 gallon drums and equipment. Employed by: DDH Nuclear Inc.

# 12 Feb 92 - 31 July 92

Location: Battelle Memorial Laboratories Decontamination and Decommissioning Project, Columbus, OH

Responsibilities: ANSI 3.1 Senior Radiation Protection Technician. Provided job coverage of waste compacting and decontamination crews. Also performed routine and job coverage radiological surveys, procedure writing, setup of computer systems for data transfer and storage, and radiological surveillance to ensure compliance with 10 CFR 20 and DOE Order 5480.11. Employed by: DDH Nuclear Inc.

# 17 Jan 92 - 10 Feb 92

Responsibilities: Performed asbestos and lead paint abatement. Employed by: Associated Thermal Services Inc.

# WORK EXPERIENCE (Continued)

#### 12 Sept 88 - 9 Dec 88

Location: Edwin I. Hatch Nuclear Power Plant, Baxley, GA

Responsibilities: ANSI 3.1 Senior Radiation Protection Technician. Provided job coverage in the drywell, condenser bay and hot machine shop. Jobs included: insulation removal, CRD removal ar replacement, valve repairs, and condenser/heat exchanger repair work.

Employed by: Applied Radiological Controls Inc.

# 22 July 85 - 30 August 88

Location: Shippingport Atomic Power Station, Shippingport, PA

Shippingport Station Decommissioning Project

**Responsibilities:** Radiation Monitor, performed radiation, contamination, and air quality surveys to support decontamination crews. Also performed area decontamination. Additional qualifications included rad waste disposal systems operator decontamination worker, asbestos worker, plant syster tender, boiler operator, rad waste packaging and shipping, and DOP testing of HEPA vacuum and ventilation units.

Employed by: McMillen Personnel Services Inc. for General Electric, and the Department of Energy.

# 26 April 85 - 19 July 85

Location: Perry Nuclear Plant, Perry, OH

Responsibilities: QC Technician III. Duties included the reading and interpretation of electrical conduit drawings and blueprints for documentation review for technical compliance.

Employed by: Comstock Engineering Inc.

#### 28 August 84 - 1 Dec 84

Location: Davis-Besse Nuclear Power Station, Oak Harbor, OH Responsibilities: Junior Radiation Protection Technician. Duties included decontamination of personal protective clothing and monitoring of cleaned clothing. Employed by: Numanco Inc.

### MILITARY EXPERIENCE

# August '78 - August '84

U.S. Navy

**Responsibilities:** Duties included the supervision, maintenance, operation and repair of nuclear and non-nuclear primary and secondary systems. Performed radiation control duties following qualification as a radiation monitor, such as control point access watch, and other control point functions.

# WORK EXPERIENCE (Continued)

#### 12 Sept 88 - 9 Dec 88

Location: Edwin I. Hatch Nuclear Power Plant, Baxley, GA

**Responsibilities:** ANSI 3.1 Senior Radiation Protection Technician. Provided job coverage in the drywell, condenser bay and hot machine shop. Jobs included: insulation removal, CRD removal and replacement, valve repairs, and condenser/heat exchanger repair work. Employed by: Applied Radiological Controls Inc.

# 22 July 85 - 30 August 88

Location: Shippingport Atomic Power Station, Shippingport, PA

Shippingport Station Decommissioning Project

**Responsibilities:** Radiation Monitor, performed radiation, contamination, and air quality surveys to support decontamination crews. Also performed area decontamination. Additional qualifications included rad waste disposal systems operator decontamination worker, asbestos worker, plant system: tender, boiler operator, rad waste packaging and shipping, and DOP testing of HEPA vacuum and ventilation units.

Employed by: McMillen Personnel Services Inc. for General Electric, and the Department of Energy.

# 26 April 85 - 19 July 85

Location: Perry Nuclear Plant, Perry, OH

Responsibilities: QC Technician III. Duties included the reading and interpretation of electrical conduit drawings and blueprints for documentation review for technical compliance.

Employed by: Comstock Engineering Inc.

#### 28 August 84 - 1 Dec 84

Location: Davis-Besse Nuclear Power Station, Oak Harbor, OH Responsibilities: Junior Radiation Protection Technician. Duties included decontamination of personal protective clothing and monitoring of cleaned clothing. Employed by: Numanco Inc.

#### MILITARY EXPERIENCE

# August '78 - August '84

U.S. Navy

Responsibilities: Duties included the supervision, maintenance, operation and repair of nuclear and non-nuclear primary and secondary systems. Performed radiation control duties following qualification as a radiation monitor, such as control point access watch, and other control point functions.

ATG Inc.

# Appendix 3

# Radiological Characterization

of

# Fort McClellan, Building 3192 and Grounds Anniston, AL

# Remediation Lists and Considerations

Allied Technology Group, Inc. 1515 Main Street Genoa, OH 43430

.

November, 1994

ATG Inc.

Appendix 3

Radiological Characterization

of

Fort McClellan, Building 3192 and Grounds Anniston, AL

Remediation Lists and Considerations

Allied Technology Group, Inc. 1515 Main Street Genoa, OH 43430

•

November, 1994

Radiological Characterization Fort McClellan, Building 3192 and Grounds Anniston, AL - 1994 - ATG Inc.

16 steel plugs within the hot cell - 2.5 ft x 6" dia.

These plugs provided the primary shielding barrier for the sources stored in the vault. It would be wasteful to dispose of these items without a serious attempt at decontamination. These items would represent substantial disposal costs if required to be waste. The activity on them is not substantial.

# Steel plate - 4' x 6' x 1".

This item has several inaccessible areas but decon is likely to be possible with minimal cutting.

#### 16 plug shrouds (sleeves for plugs)

These items may represent the most contaminated and difficult to decon. However, they are stainless steel and may not be as much of a challenge as thought.

#### Wall shield plugs (4) 2 - 34" x 8" dia. 2 - 34" x 6" dia.

These items are large steel cylinders with minimal contamination.

#### Ventilation system and components

This could represent the most significant waste volume but appears to have only low level contamination and should be easily deconned. Note: The craft paper covers of the insulation on this vent duct will not be deconned.

Supply is approximately 10'x3'x1' + 20'x2'x1' + 12"dia.x8' + 10'x2'x1' + 10'x2'x1' + 20'x2'x1' + 20'x2'x1' + 30'x2'x1' + 30'x2'x1'

Return is approximately 50'x3'x1' + 15'x3'x1' + 8'x3'x1' + 6'x3'x1' + 5'x4'x1'

The circulation assembly has two squirrel cages with detectable contamination. The cooling fins and piping may be challenge to decon and survey but release is possible after minor decon.

#### Piping systems - heating, cooling, gas and water.

These systems are outside of the hot cell and have not been in contaminated areas and were not contaminated systems.

50' 2" pipe, 80' 1" pipe Tank (2'x3'x1') gauges, pumps, valves, heater (2.5' dia x 8") Bathroom sink and Miscellaneous fixtures and supply for shower area. Radiological Characterization Fort McClellan, Building 3192 and Grounds Anniston, AL - 1994 - ATG Inc.

#### 16 steel plugs within the hot cell - 2.5 ft x 6" dia.

These plugs provided the primary shielding barrier for the sources stored in the vault. It would be wasteful to dispose of these items without a serious attempt at decontamination. These items would represent substantial disposal costs if required to be waste. The activity on them is not substantial.

#### Steel plate - 4' x 6' x 1".

This item has several inaccessible areas but decon is likely to be possible with minimal cutting.

#### 16 plug shrouds (sleeves for plugs)

These items may represent the most contaminated and difficult to decon. However, they are stainless steel and may not be as much of a challenge as thought.

## Wall shield plugs (4) 2 - 34" x 8" dia. 2 - 34" x 6" dia.

These items are large steel cylinders with minimal contamination.

#### Ventilation system and components

This could represent the most significant waste volume but appears to have only low level contamination and should be easily deconned. Note: The craft paper covers of the insulation on this vent duct will not be deconned.

Supply is approximately 10'x3'x1' + 20'x2'x1' + 12"dia.x8' + 10'x2'x1' + 10'x2'x1' + 20'x2'x1' + 20'x2'x1' + 30'x2'x1' + 30'x2'x1'

Return is approximately 50'x3'x1' + 15'x3'x1' + 8'x3'x1' + 6'x3'x1' + 5'x4'x1'

The circulation assembly has two squirrel cages with detectable contamination. The cooling fins and piping may be challenge to decon and survey but release is possible after minor decon.

#### Piping systems - heating, cooling, gas and water.

These systems are outside of the hot cell and have not been in contaminated areas and were not contaminated systems.

50' 2" pipe, 80' 1" pipe Tank (2'x3'x1') gauges, pumps, valves, heater (2.5' dia x 8") Bathroom sink and Miscellaneous fixtures and supply for shower area. Radiological Characterization Fort McClellan, Building 3192 and Grounds Anniston, AL - 1994 - ATG Inc.

60 ganged chairs in classroom.

Not likely to be contaminated - release survey possible.

11 pieces of 4x8 plywood.

Not likely to be contaminated - release survey possible.

Classroom and office ceiling tiles and insulation.

Not likely to be contaminated - release survey possible.

Classroom floor tiles.

These tiles may be asbestos but appear to be radiologically clean and will not be difficult to dispose of.