

ŕ

U.S. Laboratories Inc.

RECEIVED Region 1

<u>04 NOV -1 A10:23</u>

October 28, 2004

Control No. 135268

UNITED STATES NUCLEAR REGULATORY COMMISSION REGION 1 475 ALLENDALE ROAD KING OF PRUSSIA, PENNSYLVANIA 19406-1415

SUBJECT: RESPONSES AND CORRECTIVE ACTIONS TO NRC AUDIT OF SEPTEMBER 22 AND 23, 2004.

ATTN: Kathy Dolce Modes, Donna M. Janda

- All personnel have been retrained to assure that gauges are double locked (source and transport case) at all times when being transported or stored.
- Gizaw Makuria has received a written warning and retraining regarding security of gauges, personnel monitoring and transport packages.
- All gauge operators have received additional training on September 24, 2004. Subjects included the following: Gauge security, personnel monitoring, limit of exposure to all, operation technique, residential storage, gauge container labeling, jobsite storage and signage regulations, and transport package requirements.
- Gauge # 33316 is new this year and has not required outside maintenance. Gauge # 10230 has not required any outside maintenance. Other gauge records enclosed.

We have enclosed additional documentation you had requested during your audit in Rahway, NJ on September 22-23, 2004 and during our conference call of October 27, 2004.

- 1) RSO designation letter (License amendment to follow).
- 2) Follow up letter regarding stolen vehicle with gauge.
- 3) Responses to internal audit of May 3-4, 2004.
- 4) Training records for 9-24-04 (Post NRC audit).
- 5) Dosemitry report for 2^{nd} quarter 2004.

903 East Hazelwood Avenue Rahway, New Jersey 97065 Phone (732) 382-3553 Fax (732) 382-8840

> Offices Nationwide <u>www.uslaboratories.com</u>



ABS U.S. Laboratories Inc.

- 6) Chris Connelly exposure explanation.
- 7) Letter to Landauer, Re: Jimmy Sobrera, badge #0191, 3rd Qtr, 04.
 8) Non-routine maintenance records for Gauges 817, 1270 & 1087
- 9) Letter assigning ARSO's
- 10) Internal audit for 2003 with responses.
- 11) Depositions from Gizaw Makuria and Harshad C. Patel

Respectively Yours, Xa.

:

÷ ŀ

ţ

÷ : ÷ 2

Martin H. Myerent Radiation Safety Officer U.S. Laboratories, Inc.

2024 of Hazdwood Venue Ranway, New Jersey 07065 Phone (732) 382 3553 Fax (732) 382(8840)

> Offices Nationwide www.uslaboratories.com



U.S. LABS

To:All EmployeesFrom:Marty Lowenthal, Regional Chief ExecutiveDate:October 21, 2004Subject:Radiation Safety Officer

Martin H. Mygrant – Rahway, NJ office has been designated as the company radiation safety officer and will assume the duties and responsibilities that include ensuring the following.

- Company compliance with federal, state, DOT regulations and the company's radiations program.
- Stopping licensed activities that the RSO considers unsafe.
- Possession, use, storage, and maintenance of sources and gauges are consistent with the limitations in the license, the Sealed Source and Device Registration sheet(s), and manufacturer's recommendations and instructions.
- Individuals using gauges are properly trained.
- When necessary, personnel monitoring devices are used and exchanged at the proper intervals; records of the results of such monitoring are maintained.
- Gauges are properly secured.
- Proper authorities are notified in case of accident, damage to gauges, fire, or theft.
- Unusual occurrences involving the gauge (e.g., accident, damage) are investigated, cause(s) and appropriate corrective action are identified, and corrective action is taken.
- Audits are performed at least annually and documented, and corrective actions taken.
- Licensed material is transported in accordance with all applicable **DOT** requirements.
- Licensed material is disposed of properly.
- Appropriate records are maintained. `
- Up-to-date license is maintained and amendment and renewal requests submitted in a timely manner.

Sincerely, mener Martin B. Lowenthal

Regional Chief Executive MBL/ mhm



September 30, 2004

PEICO-U.S. Laboratories 11860 West State Road 84, Suite 1 Fort Lauderdale, Florida 33325

Attention: Rafael E. Silva, Director – Training, Safety, & Health

Reference: Stolen Vehicle with Portable Density Gauge in Trunk

Dear Mr. Silva:

On the morning of August 30, 2004, a call was made to the Elizabeth Police Department to insure the report filed on the previous day regarding the theft of a 1992 Honda Accord included the fact that a radioactive source was in the vehicle when it was stolen. ÷

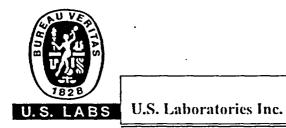
Upon receipt of this information, the search for this vehicle was greatly intensified. The Region I office of the Nuclear Regulatory Commission was notified immediately.

At 6:30 P.M. on Monday, August 30, 2004, our operations manager, Chandrakant Patel was notified by the F.B.I. that the vehicle had been found and the gauge was in the trunk and intact. Chandrakant Patel traveled to Irvington, New Jersey and met with local, state, and federal officials. At approximately 8:30 P.M., Chandrakant Patel took possession of the density gauge (#7142) and transported the gauge back to our storage facility at 903 E. Hazelwood Avenue, Rahway, New Jersey.

All responsible parties were notified of the outcome of this incident

903 Fast Hazelwood Avenue Rahway, New Jersey 07065 Phone (752) 382-3553 Fast (732) 382-8840

> Offices Nationwide www.uslaboratories.com



PEICO-U.S. Laboratories 11860 West State Road 84, Suite 1 Fort Lauderdale, Florida 33325 September 30, 2004 Page 2

If you have any questions, please do not hesitate to contact our office.

::

÷

Sincerely, U.S. Laboratories, Irc.

Mart 16 Mygia

Martin Mygrant Assistant Radiation Safety Officer

Attachments: Original report from Nehro Shahat

> 903 Fast Bazelwood Avenue Ruhway, New Jersov 87065 Phone - 7321382 3553 Jac (†732) 382-8840

> > Offices Nationwide www.uslaboratories.com

U.S. LABORATORIES, INC.

Da 8 99904

INSPECTION REPORT

Project Name (per plans) _____

: Nehro M. Shahat Name Adress 316 Williamson st. Elizabeth, NJ, 07202 ! West Essex Job name School Green Brook Rd. Picked UP Gauge [* 7/42] Frj. 8/27 . I Kept this gauge in trunk my Car For Early Mon Am Job Sunday in the morning at 7:00 Am (08/29/04) When I go to Pickup my Car from the street, I no Find my car in the same time, I called 911 When Police man Coming he did report and I told. him inside my av gruge (* 7142 My Car 1-Honda accord 92 4 Doors ork Blue Plate No. Sm. ANhro



September 30, 2004

PEICO-U.S. Laboratories 11860 West State Road 84, Suite 1 Fort Lauderdale, Florida 33325

Attention: Rafael E. Silva, Director – Training, Safety, & Health

Reference: Radiation Safety Audit 5/3,4/04

Subject: Response to Deficiencies

Dear Mr. Silva:

XVIII. Audit Deficiencies and Corrective Actions

A.1. The Rahway utilization log was reviewed a second time and it was found that the users were signing gauges in or out on the wrong pages therefore indicating lapses in utilization. Users have been retrained in log usage. ::

÷

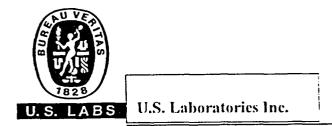
.

2

- A.2. Internal audits revealing violations have been addressed on a case by case basis with the individual responsible (i.e., user, manager, ARSO, etc.). Resolutions include verbal warning and training for 1st offense, written warning, retraining for 2nd offense & termination of employee or employee usage of gauges for 3rd offenses.
- A.3. Employees who had signed out gauges and had not been issued badges, had only transported equipment, and did not use the gauges, therefore, exposure levels were not at levels which would have mandated personal monitoring. Personal transporting gauges did receive the required Hazmat and Radiation Safety Training.
- 1. B. The RSO (Richard Hanvey) has assigned an ARSO (Assistant Radiation Safety Officer) at the Rahway, NJ, Atlantic City, NJ, and Broomall, PA officers as noted on memo dated 7/1/04 (attached).

BOAT AND Mazelwond Avenue,
 Redowny, New Jerser, 029 5.
 Chune, 1329 581 (2353), Eax (234), 281 8846.

Offices Nationwids <u>www.uslaboratories.com</u>



PEICO- U.S. Laboratories 11860 West State Road 84, Suite 1 Fort Lauderdale, FL 33325 September 30, 2004 Page 2

1. C. The posting of information at the Broomall facility has been amended to include the name + emergency contact number of the RSO and emergency procedures.

If you have any questions, please do not hesitate to contact our office.

Sincerely, U.S. Laboratories/Inc.

Martin Mygrant UVAssistant Radiation Safety Officer

:

 SWAP, 1912, Octoord Avenue, 140, Sub-Avenue, Brisco, March 2014, SUB-Avenue, STAP, 14X, 1720, 583, 8840.

> (11) S. Nationwide www.uslaboratories.com

RADIATION PROTECTION PROGRAM AUDIT CHECK	KLIST	

I. INTRODUCTION

11.

This form documents performance of the USE LAXES tion protection program audit required by U.S. Labs The audit consists of a review of the program's content and implementation, evaluating it's effectiveness in complying with regulatory requirements and keeping radiation exposures to workers and the general public as low as reasonably achievable (ALARA). Records of annual audits must be available for inspection by the U.S. Labs Corporate Radiation Safety Officer.

License Name:	U.S. Labs					
License No.:	29-30107-01 Expires: 1/31/2014 Date of Audit: May 3-4,2004					
Auditor:	Ralph E. Silva, Corporate RSO					
	(name, title)					
	. (signature)					
Management Review:	Martin B. Lowenthal, Regional Chief Executive					
	(name, title)					
	(signature)					
AUDIT HIS	TORY					
A. Last audit c	A. Last audit conducted on (date): April 30, 2004					
B. Any deficie	B. Any deficiencies noted?Yes					
C. Were corrective actions taken?Yes (look for signs of recurrence)						
D. Brief descri	D. Brief description of prior deficiencies, corrective actions taken:					
Leak tests not being performed are scheduled to be performed by May 7, 2004						
A few nauges	were not being signed back in the Daily Utilization Log As a result the					

A few gauges were not being signed back in the Daily Utilization Log. As a result the RSO indicated to the technician operating the gauge on a face to face meeting that this was not acceptable and required the user to properly log the gauge info back in.

Page 1 of 8

.....

• • •

Sec. Sec.

3. C.

łll. ORGANIZATION AND SCOPE OF PROGRAM

Α.	If the mailing address or permanent address changed, has the license been amended to reflect the change?N/A	Yes	No
В.	If ownership has changed or bankruptcy has been filed, was the NRC notified?N/A	Yes	No
C.	Does the license authorize all sources & devices possessed?	. Yes	No
D.	Do all temporary job sites meet regulatory definition (serve only one contract, open for less than 18 months)?	. Yes	No
E.	If no to A., has the NRC been notified?	. N/A `	es No
F.	If the RSO has changed, has the license been amended to identify		
	the new RSO?N/A	Yes	No
	•		
G.	the new RSO? N/A	. Yes	No
G. H.	the new RSO?	. Yes . Yes	No No

IV. MEMBER OF PUBLIC (MOP) DOSE LIMITS

Α.	Has a MOP dose compliance study been developed, submitted & approved by the NRC?	'es	No
В.	Have licensed activities changed during the year to increase likelihood of public dose limits being exceeded?	′es	No
C.	If yes to B., has a new MOP study been performed to demonstrate compliance with MOP dose limits is still being achieved?N/A Y	′es	No

V. TRAINING PROGRAM

A. All workers likely to exceed 100 mrem/yr provided radiation aware- ness training ?	Yes	No
B. All gauge Authorized Users (AUs) completed 8 hrs of NRC approved training (or are supervised by trained AUs)?	Yes	No
C. Hazmat employee training provided to workers per 49 CFR Part 172?	Yes	No
D. Field observations of gauges operators demonstrate use of safe work practices & compliance with regulatory requirements?	Yes	No

Page 2 of 8

•

10 1

医牙杆欧

VI. PERSONNEL MONITORING (PM)

A. If PM is conducted:

1.	PM badges worn properly & protected from heat, light, moisture & chemicals when not being worn?	Yes	No
2.	PM badges consistently stored with the control badge in a protected location when not in use?	Yes	No
3.	Are badges exchanged in a timely fashion to ensure accurate dosimetry reports?	Yes	No
4.	Any badges lost or damaged?	Yes	No
5.	If yes to 4., was RSO immediately notified & record of worker's estimated dose provided to badge vendor and kept on file?	Yes	No
6.	Any spare badges assigned to workers?	Yes	No
7.	If yes to 6., were spare badges marked to identify worker it was assigned to, & vendor notified to add spare badge dose to worker's occupational exposure total?	Yes	No
8.	Are dosimetry reports reviewed by the RSO upon receipt?		
9.	Upon hiring, female workers provided instructions regarding radiation risk to embryo/fetus and procedure for declared pregnancies, and documentation of receipt of instructions maintained on file?N/A	Yes	No
10.	Female workers declaring pregnancy document their declaration, are provided instructions regarding monitoring and limiting the dose to the embryo/fetus, and receipt of instructions documented?N/A	Yes	No
11.	. For workers that have declared pregnancies, records kept demonstrating embryo/fetus dose < 50 mrem for gestation period? N/A	Yes	No
12	Annual & termination reports provided to workers?	Yes	No
13	. PM records reviewed from (<i>dates</i>):toto		
14	. Highest annual dose:mR Date:		
15	. Occupational exposures within limits?	Yes	No
16	. Do PM records indicate that worker doses are being kept ALARA?	Yes	No

Page 3 of 8

····· ·

÷

1

1

Real Brown Street

VII. POSTING AND LABELING

A	A. Following documented posted at permanent facility:	
	1. Emergency proceduresYo	es No
	2. "Notice to Employees"Yo	es No
E	3. Above documents posted in conspicuous location(s) to permit workers to observe them on way to/from work?	es No
C	C. Radiation signs:	
	 "Caution (or Danger), Radioactive Material" signs: posted at permanent facility & job sites where gauges are stored?	es No
	 "Caution (or Danger), Radiation Area" signs: Is manufacturers' information kept on file to demonstrate that gauge radiation levels are too low to require posting of radiation area signs around gauge storage areas?	es No
٢	D. Gauges bear durable, clearly visible labels w/ radiation symbol, "Caution (or Danger), Radioactive Material" warning, & sufficient information to permit individuals to avoid/minimize exposures?	es No

VIII. SECURITY

Α.	Each gauge provided a storage/transport container equipped w/ lock/seal?Yes	No
В.	Minimum of two locks always used to prevent access to gauges?Yes	No
C.	Gauges kept secured against unauthorized access/removal when not under direct surveillance?Yes	No
D.	Extra precautions used to deter theft (e.g., concealing gauges from view during transport/storage, maintaining elevated level of awareness in high crime areas?	No

IX. OPERATING AND EMERGENCY (O&E) PROCEDURES

Α.	Any revisions to O&E procedures made that have not been reviewed		
	& approved by the NRC?Ye	es	No
в.	O&E procedures list correct phone numbers for RSO & NRC?Ye	s	No
C.	O&E procedures accompany portable gauges at all times?	es	No

Page 4 of 8

:

÷

. :-

:

" an and and and arrow

:

X. GAUGE TRANSPORTATION

Α.	Gauges transported to job sites are prepared & transported in same manner as when offered to third party for shipment?	No
в.	Only DOT-7A or other authorized packages used to transport gauges?	No
C.	Packages used to ship gauges properly marked & labeled per 49 CFR Part 172, Subparts D & E?Yes	No
D.	Shipping containers properly locked, blocked & braced prior to transport? Yes	No
E.	Prior to shipment, transport containers inspected to ensure proper packaging, unimpaired physical condition of container & closure devices? Yes	No
F.	Properly completed bill of lading & emergency response information provided for each gauge shipment?Yes	No
G.	Shipping papers & emergency response information immediately accessible to driver during shipment of gauges?	No

XI. GENERAL RULES OF USE

Α.	Management & RSO emphasize to workers importance of maintaining doses ALARA?	es	No
В.	Field observations of workers conducted to evaluate performance?	(es	No
C.	Good work practices used by workers to minimize doses (i.e., time, distance, shielding, general use rules)?	ſes	No

XII. <u>LEAK TESTS</u>

Α.	Gauge sealed sources leak tested at required intervals?Yes	No
В.	Leak tests conducted by authorized personnel following procedures	
	approved by the NRC? Yes	No
C.	Leak test records include all information required by NRC?Yes	No
D.	Any sources found leaking, & if so, was the NRC notified? Yes	No

XIII. GAUGE INVENTORY

A.	Gauge receipt & transfer/disposal records maintained?Yes	No
в.	Gauges physically inventoried at 6-month intervals?	No
C.	Gauge inventory records document all necessary information?	No

Page 5 of 8

......

۰.

.

•••••

U.S. Labs Radiation Protection Program Audit Checklist

XIV. GAUGE MAINTENANCE

Α.	Copies of the manufacturer's operation/maintenance manuals maintained on file for reference?	Yes	No
В.	Manufacturer's procedures referenced & followed for routine cleaning & lubrication of gauges?	Yes	No
C.	Non-routine gauge maintenance performed in-house?	Yes	No
D.	If yes to C., is non-routine gauge maintenance conducted by authorized personnel following procedures approved by the NRC?	. N/A	Yes No

XV. RADIATION SURVEY INSTRUMENTS

Α.		survey meter is not possessed, are specific plans in place to /e one available when needed?	N/A	Yes	No
B.	lf a	survey meter is possessed:			
	1.	Has the meter been approved by the NRC?		Yes	No
	2.	Is there access to an equivalent back-up meter when the primary meter is out for calibration/repair?		Yes	No [·]
	3.	Is the meter calibrated annually & after repair by a licensed vendor, & are calibration records maintained?		Yes	No

XVI. RECORD KEEPING, NOTIFICATIONS & REPORTS

A. All required documents maintained on file at permanent facility for duration specified by the NRC?	Yes	No
B. Did any incidents/emergencies occur since last audit?	Yes	No
C. If yes to B., was the response appropriate? (i.e., operator followed emergency procedures, required notifications/reports timely filed, cause of incident investigated, corrective actions taken & documented?	Yes No	N/A

XVII. INDEPENDENT AUDITS/INSPECTIONS

Α.	Any independent audits/inspections co audit (e.g., consultant or NRC inspecti	nducted since last internal on)?Yes	No
В.	If yes to A., summary of deficiencies identified & corrective actions taken:		

Page 6 of 8

XVIII. AUDIT DEFICIENCIES AND CORRECTIVE ACTIONS

- A. Summary of problems/deficiencies identified during this audit:
 - 1. Review of the Rahway office Daily Utilization Log revealed that several employees did not completely sign out or sign back in the Nuclear Density Gauges (NDG). This is a major violation of existing standard operating procedures that can lead to NRC fines, sanctions and if it's a recurring problem, it could lead to the revoking of the radioactive materials license by the NRC.
 - 2. Periodic internal audits have been performed at the Rahway facility revealing a variety of violations, however, a review of the corrective actions taken revealed an incomplete pattern of resolution. Such non-conformances must be addressed promptly, resolved within a reasonable time frame and adequately documented. Failure to do so violates the ALARA policy and its commitment by the company's management organization. This is a serious violation that may result in fines by the NRC.
 - 3. Review of the Rahway office Daily Utilization Log revealed that some employees which had not been issued dosimetry badges (personal or spares) were allowed to operate the NDGs. This is also a major violation of existing standard operating procedures within the radiation safety program that can lead to NRC fines and/or the revoking of the radioactive materials license by the NRC.

Page 7 of 8

ŀ

:

XVIII. AUDIT DEFICIENCIES AND CORRECTIVE ACTIONS (contd.)

- **B.** Description of corrective actions planned or taken:
 - Dit is highly recommended that an assistant RSO be designated at the Rahway, Atlantic City and Broomall U.S. Labs facilities. These assistant RSOs should be sent to an 8-hour formal Radiation Safety Officer training course provided by Troxler (NDG Manufacturer). These individuals should be selected by the RSO and also trained on the existing in-house radiation safety program requirements.

C. Description of other recommendations for improvement:

- The RSO name, emergency contact number and emergency procedures must also be clearly posted on the door of the radioactive materials storage area at the Broomall facility.
- All gauges (actual metal housing housing of the device) at the Rahway, Atlantic City and Broomall facilities should bear durable, clearly visible labels w/ radiation symbol, "Caution (or Danger), Radioactive Material" warning of & sufficient information to permit individuals to avoid/minimize exposures.

ь.

.

ŀ

443 Commerce Lane, Suite 1 West Berlin, New Jersey 08091 Tel: 856-767-1000 Fax: 856-753-9720

139 N. Iowa Avenue Atlantic City, New Jersey 08401 Tel: 609-344-3200 Fax: 609-344-2125



903 East Hazelwood Avenue Rahway, New Jersey 07065 Tel: 732-382-3553 Fax: 732-382-8840

814 Parkway Boulevard Broomall, Pennsylvania 19008 Tel: 610-543-3925 Fax: 610-543-1933

RADIATION SAFETY MEETING OUARTERLY 9.24.04 ωT Location: Date: 4TH OTR MESTING 9/24 1. Agreement States or Nuclear Regulatory Commission (NCR) Rules and Regulations Parts 19, 20, 21, 30, 34, & 71 2. Agreement States or nuclear Radioactive Material License. 3. Radiographic equipment and detection instrumentation to be used. The Operating and Emergency Procedures. 4. 5. M Fundamentals of Radiation Safety. M 6. Prevention of overexposures to personnel. 7. NRC Case Histories. 8. M Training in the transfer, packing and transport of radioactive material. 9. M Security of Radioactive material. 10. 11 Other: NEW SECURITY OF GAUGES RECENT NRC AUDIT DISCUSSED OPDATING OF PACKETS FINDINGS EMPLOYEES ATTENDING Ĉ ų 0 16 5 17 18 ø chahr 19. ABBA 7个 20. . MAHER AWAD 6 21. 75 7 22. Dan rowr 5 23. 8. tran R 24. 9. MY 11 25. 10. *NA* PHILLPS 26. 11. USCH 27. 12. 15-12 And 28. 13. p): ISHONI 29. 14. ., 30 15. PNAL n : ľ Instructor: MARGIN MYCRAN Z Hopes Hours:



U S ENGINEERING LAB 903 E HAZELWOOD RAHWAY NJ 07065	S ,			Lan	dauer, Inc. 2	Science Road (708) 755-7000 www.lanc	Glenwood, I	llinois 60425- (708) 755-7016	1586					e e
RADIATION DOSIMET	̈́RΥ	REP	ORT	асхаміні но 141	сонг Сонг 015	ANALYTICAL WORK (04268804		REC	Iméter Repor Eived In Wor /24/04			lu)	xe	:]
NAME		Nor	DOSE FOR PE	EQUIVALENT RIODS SHOW			YEAR TO DA		DOSE		(MREM)	SDS	NO	
NAME NUMBER DATE SEX	DOSIMETER	USE	RADIATION	DEEP DDE	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	RECORDS FOR VEAD	INCEPTION
FOR MONITORING PERIOD:				6-9 01/01	/04 -:03/	1/04		2004						
00177	Р	WHBODY	*PH	60	60	. 60	60	60	60	113	112	114	2	07/0
00192	P	WHBODY	*PH	213	213	213	213	213	213	547	544	545	2	0470
OR MONITORING PERIOD:				04/01	/04 - 06/3	0/04		2004						
00002	.Р Т Р	CNTRL CNTRL WHBODY	RH	M 41	M 40	. М. М. З9	295	294	286	1957	1956	1934	,	04/9 04/9
0011	P	CHEST NOTE		ABSENT	na na serie Serie Serie Serie Serie					390 1780	390 1778	395 1765		08/94 04/95
0029 0031	2	NOTE WHBODY WHBODY	PH PH	UNUSED 34 57	33 58	31 54	62 114	B1 113	58 110	900 1504	801 1503	895 1473		07/97 07/97 07/97
0038 0044		CHEST NOTE WHBODY	PH	ABSENT 207	206	200	9 207	9 206	8 200	118 431	115 430	112 421		01/98 07/98

the static static static

<u>Galvisi</u>

.

- NO CONTROL SUBTRACTED

.

manness in the second states of the second states

INTAPLACIADE 00516.9"

.

LA	ND	AL	JER®
	• • •		

U S ENGINEERING LABS 903 E HAZELWOOD RAHWAY NJ 07065

۰.

e

Landauer, Inc 2 Science Road

a da se Transferencia da se d

dauer, Inc 2 Science Road Glenwood, Illinois 60425-1586 Telephone: (708) 755-7000 Facsimile: (708) 755-7016 www.landauerinc.com

• ..



 \sim

.

DA			маанн но	54 KH S CODE	ANALYTICAL WORK ORDER	REPORT DATE	NOSIMETER RECEIVED	REPORT TIME IN WORK DAYS	PAGE	7
RAL	JATION DUSIMET	TREPORT	141015		0426880450	10/12/04	09/24/04	12	2	
F 1	510.54E		DOSE EQUI	VALENT	(MREM)	YEAR TO	DATE		LIFE	TIME

PANT	NAME	TER		No k	DOSE FOR PE	EQUIVALENT RIODS SHOW		DOSE	YEAR TO DA		DOSE		(MREM)	2DS EAR	NON
PARTICIPANT NUMBER	ID BIRTH NUMBER DATE SEX	COSIMETER	USE	NOIT SAC	DEEP DDF	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	RECOF FOR YI	INCEPTION DATE (MM/Y)
FOR HO	NITORING PERIOD	隧			04/01	/04 08/3	10/04 · · · · · · · · · · · · · · · · · · ·		2004						
00049 00050 00056		Р Р Р	WHBODY CHEST NOTE CHEST	PH	33 UNUSED	32	30	52	51	48	1421 251 1444	1420 253 1433	1398 256 1424	2	01/99 04/99 04/99
00060		<u>р</u> 2017 р	NOTE WHBODY WHBODY	Р Р	UNUSED 30 10	29 9	9 9	69 29	58 29	29	8 83 . 764	859 758	851 750	織	04/98 07/99
00071 · : ::: ::::::::::::::::::::::::::::::			WHBODY WHBODY	<u>р</u> Р	3.57 (S.) 4	₩ 2455 () 3	M) 1003 3	4	3 3	3 1317-55 4	1 58 315	158 314	155 315		07/89 07/00
00082 00086		्र , , ; ; P	WHBODY CHEST NOTE		ABSENT		M	M	M M	M	1463 206	1457 207	1433 205	14 I.	04/01 04/01
00089 00099 00108		Э́с Р Р	WHBODY WHBODY CHEST	PH	н 31	M 31	H 31	M 31 8	2 31 8	2 31 8	334 219 311	337 218 312		20	04/01 01/01 07/01
M: MINI	MAL REPORTING SERVICE OF		NOTE		ABSENT	QUALI	TTY CONTROL	RELEASE: VV	6.9 <i>6</i> .0994771 G	1 - PR	8089 - R	PT1318- N1		- 268	350

R

115J 4F LAD CUMI, 106515 023

U S ENGINEERING LABS 903 E HAZELWOOD RAHWAY NJ 07065

· .

..

and an and the state of the state

Landauer, Inc. 2 Science Road

Glenwood, Illinois 60425-1586 Telephone: (708) 755-7000 Facsimile. (708) 755-7016 www.landauerinc.com



	RAI	DIATION DOSIMI	ETRY RE	EPORT	M X J H REI NO 141015	CODI	ANN YTICAL WORK OF DER 0426880450	REPORT DATE 10/12/04	DOSIMETER RECEIVED 09/24/04	REPORT TIME IN WORK DAYS 12	PAGE NO 3	IUA
ſ	RR	NAME	H H H H H H H H H H H H H H H H H H H	z,	DOSE EQU FOR PERIOD		• •	YEAR TO DOSE EQUIVAL			LIFETIME DOSE EQUIVALEN	

PANT ER	1	NAME		TER		No.F	DOSE FOR PE	EQUIVALENT RIODS SHOW		DOSE	YEAR TO DATE EQUIVALENT		DOSE	LIFETIME EQUIVALENT	(MREM)	KDS FAR	NOI ۱۹۷۸
PARTICIPANT NUMBER	ID NUMBER	BIRTH DATE	SEX	DOSIMETER	USE	R4DIATION QUALITY	DEEP DDE	EYE LOC	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	RECORDS FOR YEAR	INCEPTION DATE (MMYY)
	NITORING		394.1347.4 11.2397.91				04/0	1/04 9;05/3	0/04		2004						
00111			7	Р	CHEST NOTE		ABSENT			м	м	м	725	722	719	2	07/01
00116				P	МНВОДУ		Ń			Reference M			81	83	,82	2.33	10/01
00119			, ,	P	WHBODY	1927 (1932) 1927 (1932)	ning the second s	M	M	· M	N N	M	163	162	158		10/01
00124					WHBODY		3		2	39	38	38	227	228	228		10/01
00129				245 P	WHBODY	P	8	(4422):073327904 7	7	25	24	24	310	309	303		10/01
00130				Ρ	WHBODY	P	28	28	28	74	74	73	602	598	587		10/01
00133				P	WHBODY	PH	9/75-2042-49 49	49	49	99	99	97	521	521	510		10/01
00135					CHEST								241	238	239		10/01
00141					NOTĘ WHBODY	P	ABSENT 21	21 C	20	25 7 21	21 21	20	921	919	917 917		10/01
00144				P.	WHEODY	P	2	2	2	5	5 5	1000 (5 1)	139	140	139	2	10/01
00146			1	94 9 P 1	WHBODY	Р	22	<i>ग्रह्म विकित्स</i> 21	20	46	45	43	221	220	小学校にはない。 218		10/01
1																	
M: MINI	MAL REPOR	TING SEF	VICE OF	1	1 MREM		!	QUALI	TY CONTROL F	RELEASE: VV(<u> </u> 3	1 - PR	8089 - RF	T1318- N1	l	- 268	50

N HERREAR DEPLY 100512-025

	U S ENG 903 E H/ RAHWA	ZELW	DOD	.BS				ndauer, Inc 2 Telephone (Glenwood, Facsimile: fauerinc.com	ER Illinois 60425- (708) 755-7010	6				xe	
RAI	DIATIO	N DO	SIME	TR	REP	ORT	- 141	CODE	ANALYTICAL WORK (04268804		REC		RTTIME PAGE RK DAYS NO. 12	4			-
PANT ER		NAME		TER		No Z	DOSE FOR PE	E EQUIVALENT ERIODS SHOW		DOS	YEAR TO DA		DOSE	LIFETIME EQUIVALEN		SDS AR	NO
PARTICIPANT MUMBER	ID NUMBER	BIRTH DATE	SEX	DOSIMETER	USE	RADIATION CUALITY	DEEP ' DDE	EYE I DE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	RECORDS FOR YFAR	INCEPTION
FOR NO	NITORING	PERIOD					.; : ;;;04/0	1/04 - 08/:	0/04		2004						
00147 00148 00149			. _	P	WHBODY CHEST NOTE	(P	9 25 UNUSED	de la contrata	8	9	8	8 54	82 447 692	81 446 687	80 432 681	2	10/0 10/0
0150 0151 0154				P	WHBODY WHBODY WHBODY	P	44 18	43 , 17 22	41 17 22	43	85 42 50	83 41	331 347	328 346 300	328 341	2	10/0 01/0
0155				P	WHBODY	P	M	1	1	49 5	6	49 5	299 220	223	291 221	2	01/0 01/0
0160				P	WHBODY CHEST NOTE		10 UNUSED			.	23	23 (1997) - Andrew (1997) - Andrew (1997)	34 9 314	380 313	340 306	2	01/0 01/0
0168 0168				P	WHBODY	PH	165 M	-1 55 	155 M	-165 M	165 M	- 165 	846 163	547 164	540 162		01/0 01/0

••• • • •

.

.

٠

 $(1, \dots, 1, 1, \dots, 1, M)$ (1) (1) (2) $(M, M) = (1, \dots, 1, 1, \dots, 1, 1, M)$

RVLAD

THAR AREAD FOR STATUS AN

٠

U S ENGINEERING LABS 903 E HAZELWOOD RAHWAY NJ 07065

•

· •

• ,..

٠.

Landauer, Inc. 2 Science Road Telephone. (708) 755-7000 www.landau

· · · · · ·

in e de la constante de

ice Road Glenwood, Illinois 60425-1586 55-7000 Facsimile: (708) 755-7016 www.landauerinc.com



RADIATION DOSIMETRY REPORT	ACCOUNT NO	SERIES CODE	ANALYTICAL WORK ORDER	FFFORI DATE		REPORT TIME IN WORK DAYS	PAGE NO
	141015		0426880450	10/12/04	09/24/04	12	5

PANT ER		NAME		TER		Nor	DOSE FOR PE	EQUIVALENT RIODS SHOW		DOSE	YEAR TO DA		DOSE	LIFETIME EQUIVALENT	(MREM)	RDS FAR	(YMM
PARTICIPANT NUMBER	ID NUMBER	BIRTH DATE	SEX	DOSIMETER	USE	RADIATION QUALITY	DEEP DDE	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	RECORDS FOR YEAR	INCEPTION DATE (MM/Y)
	NITORING							/04: 08/3	0/04		2004						
00169				P	WHBODY	Р	14	13	13	43	. 42	41	584	582	570	2	01/02
00171 00172				P	CHEST NOTE CHEST		ABSENT			28	28	38	638	639	503 637		01/02
00173 00177	-	·		P.	NOTE CHEST NOTE CHEST		UNUSED			41 60	41 60	39 60	955 113	955 112	350 114	N 44	01/02
00178 00179			•	P	NOTE WHBODY CHEST		UNUSED M	ALTE MIT ANTALAS		Э. В	й 7	N 7	89 355	89, 357	88 351	54.	07/02
00180 00184 00185				P P	NOTE WHBODY WHBODY WHBODY	P P P	ABSENT 4 7 19	3 8 19	3. 8 17.	4 7 58	3 8 56	8 8 52	218 7 248	214) 8 249	211 8 241	2	07/02 04/03 04/03
00186 00187					CHEST NOTE CHEST	eng fijalge Gestender	ABSENT	ARTERIA ARTERIA		N M	n in the second s	n program in state and a state M State State of the state of the	206 99	207 89	205 98	2	04/03
	MAL REPOR				NOTE		ABSENT		TY CONTROL F			1 - PR		PT1318- N1		- 26	04/03



TETAPLAUSZAPL 1005TETP"

LANDAUER [®]

U S ENGINEERING LABS 903 E HAZELWOOD RAHWAY NJ 07065

.

۰.

..

Landauer, Inc 2 Science Road Glenwood, Illinois 60425-1586 Telephone: (708) 755-7000 Facsimile: (708) 755-7016 www.landauerinc.com

. . .



RADIATION DOSIMETRY REPORT	ACCOUNT NO	SFRIES CODE	ANALYTICAL WORK ORDER	REPORT DATE	DOSIMETER RECEIVED		PAGE NO.
RADIATION DOSIMETRT REPORT	141015		0426880450	10/12/04	09/24/04	12	6

PANT ER		NAME		TER		No≻	DOSE FOR PE	EQUIVALENT		DOSE	YEAR TO DA		DOSE			RDS ≞AR	NON
PARTICIPANT NUMBER	ID NUMBER	BIRTH DATE	SEX	DOSIMETER	USE	RADIATION QUALITY	DEEP DDE	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	RECORDS FOR YEAR	INCEPTION DATE (MM/Y)
FOR NO	NITORING	PERIOD:					04/0	1/04 - 08/3	0/04		2004					额	
00188				Ρ	CHEST NOTE		ABSENT			М	М	м	6	6	7	2	04/03
00189 00190				1.7	WHBODY WHBODY	P PH	ABSENT 9 108	8 107	7. 104	9 129	129	7 126	128 388	124 388			04/03 04/03
00191 00192				P	WHBODY NOTE NOTE CHEST	PH	DOSIMETER	(··· · · · · · · · · · · · · · · · · ·	922 Aging Result D. Second Re			922 ED DOSE 213	1044 547	1043 544	1019 545	1	04/03 04/03
00193 00194	-			P	NOTE WHBODY WHBODY	 P	ABSENT M 20	м 19	₩ 19	M 21	20	N 19	5 21	4 20	6 19		04/03 04/03
00195 00196 00197 00198	•			P	CHEST NOTE WHBODY WHBODY CHEST NOTE	P P	ABSENT 20 B ABSENT	19 4	18 3	р 20 5 2	м 19 4 2	M 18 3 2	140 76 5 2	138 75 4 2	138 72 3	2 2	04/03 04/03 04/03 04/03
M: MINI	MAL REPOR	TING SEF	RVICE OF		1 MREM			QUALI	TY CONTROL I	RELEASE: VV		1 - PR	8089 - RF) •T1318- N1	[• 268	350

.

RIV TERMELAGEROR, RESPONSE

	903 E HA RAHWAY		OD	Ċ,			Lan	dauer, Inc 2	2 Science Road 708) 755-7000	Glenwood, l	ER® Illinois 60425 (708) 755-7010	-1586			Č		
RAI	DIATIO	N DOS	IMET	RY	REP	ORT	141	015	ANAI YTICAL WOILK 04268804		REC	Gimeter Repor Ceived in Wor /24/04	RK DAYS NO	7	lux	κe) [
PANT		NAME		TER		N No N	DOSE FOR PE	EQUIVALENT RIODS SHOW		DOSE	YEAR TO DA		DOSE		(MREM)	SDS SDS	HH C
PARTICIPANT #JMBER	ID NUMBER	BIRTH DATE	SEX	DOSIMETER	USE	RADIATION QUALITY	DEEP DDL	EYE I DE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	RECORDS FOR VEAR	FUR YEAK
<u>i de const</u>	NITORING		1979-1979 1979-1979 1979-1979				115762518	/04/ 06/3	HAR BALLASIA		1.2004.11						
00199 00200 00201				P P P	WHBODY WHBODY CHEST		М 	M 18	M 	M 31 23	M 31 23	M 30 22	M 31 23	M 31// 23	1	2	0 0 0
00202 00203				P :200	NOTE WHBODY CHEST	арн З	ABSENT	288	281	269 52	268 52	261 52	269 110	268 109	281, 110	2	
00205 00206				Т Х Т	NOTE WHBODY WHBODY	P P	UNUSED 11 21	11 20	18 18	37 24	37 23	38 20	37 24	37 23	38 20	2	10 10
00207 00208				P P	WHBODY WHBODY	PH	н 98	M 97	N 95	н 131	N 130	M 128	M . 131	130	М 128	2	01 01
00209 00210					WHBODY WHBODY	2 () () () ()	70 4	89 3	68 3	70 44	69 44	68 44	70 44	89 44	68 44	2	

1111

RIVLAD

.

.

HVEAPEAU CODE 199519-911

a<u>n na Malan</u>a ang kanala na kanala na kanala na kanala na kanala na Malana na Malana na kanala na kanala na kana

LA	ND	Al	JER [®]

USENGINEERINGLABS 903 E HAZELWOOD RAHWAY NJ 07065

: .

. . .

.

...

Landauer, Inc. 2 Science Road Telephone: (708) 755-7000

.

1 - 11 **31** - 1**35** - 11

Glenwood, Illinois 60425-1586 Facsimile: (708) 755-7016 www.landauerinc.com

1.



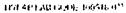
ACCORN **RADIATION DOSIMETRY REPORT**

¥., :

NO IN	SI RIES CODE	ANALYTICAL WORK ORDER	REPORT DATE		REPORT TIME IN WORK DAYS	PAGE NO
141015		0426880450	10/12/04	09/24/04	12	8

PANT ER	N	IAME		TER		NOL	DOSE FOR PE	Equivalent Riods Bhow		DOSE	YEAR TO DA		DOSE	LIFETIME EQUIVALENT	(MREM)	ORDS YEAR	NWN)
PARTICIPANT AUMSER		BIRTH DATE	SEX	DOSIMETER	USE	RADIATION OUALITY	DEEP DDE	EYE LDE	SHALLOW SDE	. DEEP DDE	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	RECOF FOR YI	INCEPTION DATE (MMYY)
	NITORINA PI						04/0	/04 - 08/3	0/04		2004						
00211				Ρ	WHBODY		М	M	M	М	М	M	М	М	М	2	01/04
00212 00213				P P	WHBODY WHBODY	Р Р	29 4	28 4	27 4	65 4	64 4	- 63 4	65 4	64 4	63 4		01/04 01/04
FOR MO	NITORING PE	RIOD					04/01	/04 - 08/3	0/04		2004						
00000 00112 00118				р 	CNTRL CHEST NOTE CHEST		M	M	M				1 64 535	184 535	531		04/94 10/01 10/01
00142				P	NOTE CHEST NOTE		UNUSED						213	213	210		10/01
FOR MON	ITORING PE	RIOD:					07/01	/04 - 09/30	0/04		2004						
00000				Pa Ta	CNTRL CNTRL CNTRL WHBODY		M M M	M M M M	M M M M	9	9	8	116	115	112		04/94 04/94 04/94 04/98





	U S ENG 903 E H/ RAHWA	AZELWC		·			Land	tauer, Inc.	2 Science Road (708) 755-7000 www.land	Glenwood, Facsimile: lauerinc.com	Illinois 60425 (708) 755-701	5-1586	T TIME PAGE			Xe	
RAI ·	DIATIO	N DOS	SIMETF	RY RI	EPC	ORT		CODE	04268804	l		CEIVED IN WOF	IK DAYS NO	9			
ANT ER		NAME		TER		Nor		EOUIVALENT RIODS SHOW		DOSE	YEAR TO DA EQUIVALEN		DOSE		r (MREM)	RDS EAR	νč
PARTICIPANT NUMBER	ID NUMBER	BIRTH DATE	SEX	COSIMETER	SE	REDIATION CUALITY	DEEP DDE	EYE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	RECOR FOR YE	l a ≥
FOR NO	NITORING	PERIOD:					ALT: 107/01	/04 =: 09/:	3D/04 M		2004					S.	
00050 00058 } 00067	i			Pa CHI NOT Pa CHI Pa CHI Pa CHI	re ST	الې سرو کې د مې مې	UNUSED UNUSED			29	29	29	251 (1444) 784	253 1433 758	256 1424 750	2	04/99 04/99 07/99
00085 00141				Pa CHE NOT Pa CHE NOT Pa CHE NOT	EXT EXT		UNUSED UNUSED			M 21	N 21	M . 20	206 921	207 919	205 917	1.74	0 4/01 10/01
00149 00161				Pa CHE NOT Pa CHE NOT	E ST		UNUSED						692 314	687 313	681 306		10/01 01/02
00172				Pa CHE NOT	ST :		UNUSED			-28	28	26	. 638.	639	837	· · · · · ·	01/02

Pa CHEST NOTE 00210 3 01/04 44 44 44 44 44 UNUSED 2004 FOR MONITORING PERIOD: the state and the second state of the state an dan ang aga 10/01/04 - 12/31/04 00038 Pa CHEST 9 112 4 01/98 9 8 116 115 NOTE UNUSED

M: MINIMAL REPORTING SERVICE OF 1 MREM

.

· · ·

•

the second second

the state of the s

QUALITY CONTROL RELEASE: VVG

1 - PR 8089 - RPT1318- N1

44

.

- 26850

IP/EAPLAB CODE TO STRAFT

LANDAUER [®]

U S ENGINEERING LABS 903 E HAZELWOOD RAHWAY NJ 07065

. . .

•

. .

• • • • •

.....

Landauer, Inc. 2 Science Road Telephone. (708) 755-7000

an an an an Anna an Ann

ce Road Glenwood, Illinois 60425-1586 55-7000 Facsimile: (708) 755-7016 www.landauerinc.com

:.

.



R۵			IMET	RY	RFP	ORT	ACCOUNT NO	SERIES CODE	AHALY FICAL WORK	DRDER IFF		SIMETER REPO	DRT TIME PAG DRK DAYS NO	E		AC	2		
						0111	141	015	04268804	50 1	0/12/04 09	0/24/04	12		** LAST	PAGE	**		
PANT ER	NAME E			н	Zob				DOSE FOR PE	EQUIVALENT RIODS SHOW		DOSE	YEAR TO DA		DOS	LIFETIME E EQUIVALEN		2DS FAR	NON MMY
PARTICIPANT NUMBER	ID NUMBER	BIRTH DATE	SEX	DOSIMETER		USE	RADIATION QUALITY	DEEP NDE	EYE LDE	SHALLOW SDE	DEEP - DDE	EYE LDE	SHALLOW SDE	DEEP DDE	EYE LDE	SHALLOW SDE	RECORDS FOR YFAR	INCEPTION DATE (MMVY)	
FOR NO	NITORING	PERIOD;					10/01	/04 -: 12/3	1/04		2004	Sec.							
00050				Pa	CHEST		UNUSED				· ·		251	253	256	4	04/99		
00111 00136				ं Pa	CHEST NOTE CHEST		UNUSED			M M	M	M M M	725 241	722 238	239	13	07/01 10/01		
00141 00188				Pa	NOTE CHEST NOTE CHEST		UNUSED			.21 M	21 M	20 M	921 6	919 6	917 7		10/01 04/03		
00193 00199	·• .			Pá	NOTE CHEST NOTE CHEST		UNUSED			M	M	M	ССС М	4 M	5 1		04/03 04/03		
00210				Pa	NOTE CHEST NOTE		UNUSED			44	44	44	44	44	44	4	01/04		

M: MINIMAL REPORTING SERVICE OF 1 MREM

.

QUALITY CONTROL RELEASE: VVG

.

1 - PR 8089 - RPT1318- N1

- 26850

HELARGADE IOSTRA

Ct 26 04 11:25a USEL 0/22/2004 08:00 FAX 15703871608 IRWIN & LE	LE	51UJ 543-1	#300% 933	P·c
U.S. LABORATORIES, INC.	•	Page	of	
•		Date		
INSPECTION	REPORT			
Project Name (per plans)				
				•
O INHOM IT MAY CONCERN:	RE: RADIA	70n SAFE	Y BADGI	
·				
				·
KECENTLY I WAS INTERNE				
SUPERIOR IN TEGARD TO A HIGH R				
WAS INFORMED THAT MINE WAS OUT			NOT A	
A PISK LEVEL BELOW IS STATED 11		rokied	····	
I HAVE BEEN EMPLOYED	BY USFI	Eno 12.	EAP 3	
HAVE USED A NUCLEAR GAUGE FROM 7				
ANY GAUGE I HAVE ISED HAS BEEN				
PASSENGER SIDE OF MY PICK-UP +		1		
WHEN IN USE MY BADGE				
SHIET POCKET. WHEN MY GAUGE is				
BADGE INSIDE A BRIEFCASE ON TH			1	·
PICIC-UP			or my	
ANY QUESTIONS YOU MANY HAV	E FEEL ER	EE TO AS	 к	
	SINCE	rery		
		•	-	
	I	0-21-04	(
······································				
		·		

.

. ۲ ------

.

•

.



U.S. Laboratories Inc.

October 26, 2004

LANDAUER 2 Science Road Glenwood, Illinois 60425-1586

ATTENTION: DOSEMITRY

Thank you for your cooperation in this matter.

Sincerel

.....

•

. .

Martin Mygrart/// Radiation Safety Officer U.S. Laboratories, Inc.

(9) Service Hazelwood (1996) and Bridovice, New Access (1997) Place of the 1883 Latence of NN Pre-Place of the 1883 Latence of NN Pre-

www.uslaboratories.com

1 : 7

InstroTek North East

78 South Main St. Newtown, CT 06470 203-426-0200 203-270-3582 Fax

US Engineering Mike Bottalico 443 Commerce Lane West Berlin, NJ 08091

Bill To

P.O. Number	Terms	Rep	Ship	Via	F.O.B.	1	Project
Mike	Net 30	PCP	3/17/2003	Motor Freight			
Quantity	Item Code		Descrip	_1	Price	Each	Amount
1 1 1	3 Block 8-2 H200149 H3200660 HS-200319 HS-200087	Bottom Gaske Trigger Indexe Auto Indexer Density Ampl	LIBRATION 8/2 t			250.00 9.25 20.00 95.00 95.00 6.20%	250.0 9.2 20.0 95.0 95.0 0.0
		· · ·		<u></u>	Tota	<u> </u>	\$ 469.2

Ship To US Engineering Mike Bottalico 814 Parkway Blvd Broomall, PA 19008

Date

3/17/2003

TUDEL	O T	U.L.	710	A CES	1.00

Invoice

Invoice #

. 1405

......

. . .

ŀ

.

.

.

monce

î .

2032703582

INSTROTEK

:

:

:

•

ALC: 1.1.1.1.

.

	Instrote	k, Inc.		
050.	1270		CALIB DATE:	
A NEU		STD COUNT:	DENSITY:	2549
	P DENSITY CAL	IRRATION DATA		
	A	B	С	
		0.01761	0.000.41	
•	MOISTIDE CA	I IDD & TI/NN IN & T &		
•			· • •	
	فحذبا الأحذة			
	0.05255	0.01724		
	A NEU oth BS 2 4 6 8	SER: 1270 A NEUTRON 0 ** DENSITY CAL oth A BS 2.22254 2 6.36275 4 8.25913 6 9.97103 8 11.49266 ** MOISTURE CA E	A NEUTRON STD COUNT: ** DENSITY CALIBRATION DATA A B A B BS 2.22254 0.01761 2 6.36275 0.01205 4 8.25913 0.01494 6 9.97103 0.01912 8 11.49266 0.02356	SER: 1270 CALIB DATE: CALIB BAY: A NEUTRON STD COUNT: DENSITY: MOISTURE: ** DENSITY CALIBRATION DATA ** oth A B C BS 2.22254 0.01761 -0.09041 2 6.36275 0.01205 0.20675 4 8.25913 0.01494 0.21728 6 9.97103 0.01912 0.09179 8 11.49266 0.02356 0.02438

1 . . .

INSTROTEK

Invoice

Invoice #

. . .

.

• • • • • • • • •

:

InstroTek North East

78 South Main St. Newtown, CT 06470 203-426-0200 203-270-3582 Fax

US Engineering Mike Bottalico 443 Commerce Lane West Berlin, NJ 08091

Bill To

	3/17/2003	1406
•		• • • • • • • • • • • • • • • • • • •

Date

Ship To US Engineering Mike Bottalico 814 Parkway Blvd Broomall, PA 19008

P.O. Number	Terma	Rep	Ship	Via	F.O.B.	1	Project
Mike	Net 30	PCP	3/17/2003	Motor Freight			
Quantity	Item Code	<u>/</u>	Descrip	_l}	Price E	Each	Amount
1	3 Block 8-2 H200149	3 BLOCK CAL Bottom Gasket Humboldt 5001 Sales Tax	IBRATION 8/2			250.00 9.25 6.20%	250.0 9.2 0.0
l		_l	·····		Total	l	\$2 59.1

1.1.7 4

INSTROTEK -

.

Ship To

US Engineering Mike Bottalico

814 Parkway Blvd Broomall, PA 19008

.

Invoice

ł :

:

.

.

.

:

: :

Date Invoice #

3/17/2003 1404

Newtown, CT 06470 203-426-0200 203-270-3582 Fax

78 South Main St.

InstroTek North East

US Engineering Mike Bottalico 443 Commerce Lane West Berlin, NJ 08091

Bill To

		·					/
P.O. Number	Terma	Rep	Ship	Via	F.O.B.	1	Project
Mike	Nct 30	PCP	3/17/2003	Motor Freight			
Quantity	Item Code		Descrip	2tion	Price	Each	Amount
1	3 Block 12-2 HS-200122 Shipping & Handl	Standard Block	r Freight)			250.00 205.00 150.00 6.20%	250.0 205.0 150.0
	L	<u>l</u>			Tota	Ì 1]	\$ 605.0

To: All Employees

From: R.D. Hanvey, R.S.O.

Date: July 1, 2004

Subject: Assistant Radiation Safety Officer

C. Patel – Rahway, New Jersey, Mike Bottalico – Atlantic City, NJ, and John Branyan – Broomall, PA have been designated as assistant radiation safety officer and will assist the radiation safety officer ensuring the following.

- Company compliance with federal, state, DOT regulations and the company's radiations program.
- Stopping licensed activities that the RSO considers unsafe.
- Possession, use, storage, and maintenance of sources and gauges are consistent with the limitations in the license, the Sealed Source and Device Registration sheet(s), and manufacturer's recommendations and instructions.
- Individuals using gauges are properly trained.
- When necessary, personnel monitoring devices are used and exchanged at the proper intervals; records of the results of such monitoring are maintained.
- Gauges are properly secured.
- Proper authorities are notified in case of accident, damage to gauges, fire, or theft.
- Unusual occurrences involving the gauge (e.g., accident, damage) are investigated, cause(s) and appropriate corrective action are identified, and corrective action is taken.
- Audits are performed at least annually and documented, and corrective actions taken.
- Licensed material is transported in accordance with all applicable *DOT* requirements.
- Licensed material is disposed of properly.
- Appropriate records are maintained.
- Up-to-date license is maintained and amendment and renewal requests submitted in a timely manner.

Sincerely,

Richard D. Hanvey Radiation Safety Officer CTO/slm

Note: All areas indicated in audit notes may not be applicable to every license and may not need to be addressed during each audit. Licensee's name: U.S. ENGNERING _LABS License No.: 29-30107-01

Auditor: MARIN H. MYGLAN [Date of Audit: 11-18-03 Telephone No.: 732 382 3553 (Signature)

1. AUDIT HISTORY

- a. Last audit of this location conducted on (date)_____
- b. Were previous audits conducted yearly? [10 CFR 20.1101)
- c. Were records of previous audits maintained? [10 CFR 20.21021)
- d. Were any deficiencies identified during the last two audits or two years, whichever is longer?
- e. Were corrective actions taken? (Look for repeated deficiencies). (YES) (NO) (N/A)

2. ORGANIZATION AND SCOPE OF PROGRAM

- a. If the mailing address or places of use changed, was the license amended? ((YES))(NO) (N/A)
- b. If ownership changed or bankruptcy was filed, was prior NRC consent obtained or was NRC notified? (YES) (NO) (N/A)
- c. If the RSO was changed, was the license amended? Does the new RSO-meet NRC training requirements? (YES) (NO)
- d. If the designated contact person for NRC changed, was NRC notified? (YES) (NO) (N/A)
- e. Does the license authorize all of the NRC-regulated radionuclides contained in the gauges possessed? ((YES) (NO) (N/A)
- f. Are the gauges as they are described in the Sealed Source and Device (SSD) Registration Certificate or Sheet? Are copies of (or access to) SSD Certificates available? Does the licensee have the manufacturers' manuals for operation and maintenance? [10 CFR 32.2101)

(YES) (NO) (N/A)

- g. Are the actual uses of gauges consistent with the authorized uses fisted on the license?
- h. Is the RSO fulfilling his/her duties?

(YES))(NO) (N/A)

(NO) (N/A)

(YES) (NO) (NA)

(YES)/(NO) (N/A)

v

APPENDIX F

3. TRAINING AND INSTRUCTIONS TO WORKERS

a. Were all workers who are likely to exceed 100 mrem/yr instructed per 10 CFR 19.12? Was refresher training provided, as needed? (YES) (NO) (N/A)

•

- b. Did each gauge operator attend an approved course before using the gauges (YES) (NO) (N/A)
- c. Are training records maintained for each gauge operator? (YES)/(NO) (N/A)
- d. Did interviews with operators reveal that they know the emergency procedures (YES)' (NO) (N/A)
- e. Did this audit include observation of operators using the gauge in a field situation? (YES) (NO) (N/A)Operating gauge? (YES) (NO) (N/A)Performing routine cleaning and lubrication? (YES) (NO) (N/A) Transporting gauge? (YES) (NO) (N/A)Storing gauge? (YES) (NO) (N/A)
- f. Did the operator demonstrate safe handling and security during transportation, use, and storage? (YES) (NO) (N/A)
- g. Was HAZMAT training (required at least once every three years) provided as required? [49 CFR 172.700, 49 CFR 172.701, CFR 172.702, 49 CFR 172.703, 49 CFR 172.704] (YES)
 (NO) (N/A)

4. RADIATION SURVEY INSTRUMENTS

- a. If the licensee possesses its own survey meter, does the survey meter meet NBC's criteria? (YES) (NO) (N/A)
- b. If the licensee does not possess a survey meter, are specific plans made to have one available? (YES) (NO) (N/A)
- c. Is the survey meter needed for non-routine maintenance calibrated as required? [10 CFR 20.1501] (YES) (NO) (N/A)
- d. Are calibration records maintained? [10 CFR 20.2103(a)] (YES) (NO) (N/A)

5. GAUGE INVENTORY

- a. Is a record kept showing the receipt of each gauge? [10 CFR 30.51(a)(1)] (YES) (NO) (N/A)
- b. Are all gauges received physically inventoried every 6 months? (YES) (NO) (N/A)
- c. Are records of inventory results with appropriate information maintained? (YES) (NO) (N/A)

6. PERSONNEL RADIATION PROTECTION

- a. Are ALARA considerations incorporated into the radiation protection program? [10 CFR 20.1101(b) (YES)) (NO) (N/A)
- b. Is documentation kept showing that unmonitored users receive less than 10 percent of limit? (YES) (NO) (N/A)
- c. Did unmonitored users' activities change during the year which could put them over 10 percent of limit? (YES) (NO) (N/A)
- d. If yes to c. above, was a new evaluation performed? (YES) (NO) (N/A)

NUREG - 1556, Vol. 1, Rev. 1

e. e. Is external dosimetry required (user receiving greater than 10 percent of limit)? Is dosimetry provided to users? (YES) (NO) (N/A)

i. Is the dosimetry supplier NVLAP-approved? 110 CFR 20.1501(c)] (YES) (NO) (N/A)

ii. Are the dosimeters exchanged monthly for film badges and at the industryrecommended frequency for TLDs? (YES) (NO) (N/A) QUARTERLY -----

iii. Are dosimetry reports reviewed by the RSO when they are received?(YES) (NO) (N/A)

iv. Are the records NRC forms or equivalent? [10 CFR 20.2104(d), 10 CFR 20.2106(c)] • NRC-4 "Cumulative Occupational Exposure History" completed? (YES) (NO) (N/A)• NRC-5 "Occupational Exposure Record for a Monitoring Period" completed? (YES) (NO) (N/A)

- v. If a worker declared her pregnancy, did licensee comply with, 10 CFR 20.1208? Were records kept of embryo/fetus dose per 10 CFR 20.2106(e)? (YES) (NO) (N/A)
- f. Are records of exposures, surveys, monitoring, and evaluations maintained? [10 CFR 102, 10 CFR 20.2103, 10 CFR 20.2106] (YES) (NO) (N/A)

7. PUBLIC DOSE

- a. Are gauges stored in a manner to keep doses below 100 mrem in a year? (YES) (NO) (N/A) [10 CFR 1301(a)(1)]
- b. Has a survey or evaluation been performed per 10 CFR 20.1501(a)? Have there been any additions or changes to the storage, security, or use of surrounding areas that would necessitate a new survey or evaluation? (YES) (NO) (N/A)
- c. Do unrestricted area radiation levels exceed 2 mrem in anyone hour? (YES) (NO) (N/A) [10 CFR 0.1301(a)(2)]
- d. Are gauges being stored in a manner that would prevent unauthorized use or removal? (YES) (NO) (N/A) [10 CFR 20.1801]
- e. Are records maintained? (YES) (NO) (N/A) [10 CFR 20.2103, 10 CFR 20.21071]

8. OPERATING AND EMERGENCY PROCEDURES

- a. Have operating and emergency procedures been developed? (YES) (NO) (N/A)
- b. Do they contain the required elements? (YES) (NO) (N/A)
- c. Does each operator have a current copy of the operating and emergency procedures, including current telephone numbers? (YES) (NO) (N/A)

9. LEAK TESTS

- a. Was each sealed source leak tested every 6 months or at other prescribed intervals? (YES) (NO) (N/A)
- b. Was the leak-test performed as described in correspondence with NRC and according to the license? YES) (NO) (N/A)

- c. Are records of results retained with the appropriate information included? (YES) NO) (N/A)
- d. Were any sources found leaking and if yes, was NRC notified? (YES) (NO) (N/A)

10. MAINTENANCE OF GAUGES

- a. Are manufacturer's procedures followed for routine cleaning and lubrication of the gauge? (YES) (NO) (N/A)
- b. Does the source or source rod remain attached to the gauge during cleaning² (YES)['] (NO) (N/A)
- c. Is non-routine maintenance performed where the source or source rod is detached from the gauge? (YES) (NO) (N/A) If yes, was it performed according to license requirements (e.g., extent of work, individuals performing the work, procedures, dosimetry, survey instrument, compliance with10 CFR 20.1301 limits)? (YES) (NO) (N/A)

11. TRANSPORTATION

- a. Was DOT-7A or other authorized packages used? (YES) (NO) (N/A) [49 CFR 173.415, 49 CFR 173.416(b)]
- b. Are package performance test records on file? (YES) (NO) (N/A)
- c. Are special form sources documented? (YES) (NO) (N/A) [49 CFR 173.476(a)]
- d. Did the package have 2 labels (ex. Yellow-II) with TI, Nuclide, Activity, and Hazard Class? (YES) (NO) (N/A) [49 CFR 172.403, 49 CFR 173.441]

REPLACED LABELS ON 5 GAUGE

.

.

- e. Was the package properly marked? (YES) (NO) (N/A) [49 CFR 172.301, 49 CFR 172.304, 49 CFR 172.324]
- f. Was the package closed and sealed during transport? (YES) (NO) (N/A)[49 CFR 173.475(f)]

- g. Were shipping papers prepared and used? (TES) (NO) (N/A) [49 CFR 172.200(a)]
- h. Did the shipping papers contain proper entries (Shipping name, Hazard Class, Identification Number (UN Number), Total Quantity, Package Type, Nuclide, RQ, Radioactive Material, Physical and Chemical Form, Activity, category of label, TI, Shipper's Name, Certification and Signature, Emergency Response Phone Number, Cargo Aircraft Only [if applicable])? (YES) (NO) (N/A) [49 CFR 172.200, 49 CFR 72.201, 49 CFR 172.202, 49 CFR 172.203, 49 CFR 172.204, 49 CFR 172.604]

SOME PACKAGES REQUIRED UPDATED INFO.

:

•

.

i. Were the shipping papers within the driver's reach and readily accessible during transport? (YES) (NO) (N/A) [49 CFR 177. 817(e)]

- j. Was the package secured against movement? (YES) (NO) (N/A) [49 CFR 177. 834]
- k. Was the vehicle placarded, if needed? (YES) (NO) (N/A) 49 CFR 172.504]
- 1. 1. Were over packs, if needed, used properly? (YES) (NO) (N/A) [49 CFR 173.251]
- m. k. Were any incidents reported to DOT? (YES) (NO) (N/A) [49 CFR 171.15, 161]

12. AUDITOR'S INDEPENDENT SURVEY MEASUREMENTS (IF MADE)

n. a. Describe the type, location, and results of measurements. Do any radiation levels exceed regulatory limits? (YES) (NO) (N/A)

SURVETED STOPAGE AREA & ANACENT OFFICIE

13. NOTIFICATION AND REPORTS

- a. Was any radioactive material lost or stolen? (YES) (NO) (N/A)Were reports made? (YES) (NO) (N/A) [10 CFR 20.2201, 10 CFR 30.50]
- b. Did any reportable incidents occur? (YES) (NO) (N/A)Were reports made? (YES) (NO) (N/A) [10 CFR 20.2202, 10 CFR 30.501
- c. Did any overexposures and high radiation levels occur? (YES) (NO) (N/A)Were they reported? (YES) (NO) (N/A) [10 CFR 20.2203, 10 CFR 30.50]
- d. If any events (as described in items a through c above) did occur, what was the root cause? (YES) (NO) (N/A) Were the corrective actions appropriate? (YES) (NO) (N/A)

o. Is the licensee aware of the telephone number for the NRC Emergency Operations Center? (XES) (NO) (N/A) [(301) 816-51001]

14. POSTING AND LABELING

- a. Is NRC-3 "Notice to Workers' posted? (YES) (NO) (N/A) [10 CFR 19.11]
- b. Are NRC regulations and lieense documents posted or are a notice posted stating where these documents are located? (YES) (NO) (N/A) [10 CFR 19.11, 10 CFR 21.6]
- c. Is there any other posting and labeling? (YES) (NO) (N/A) [10 CFR 20.1902, 10 CFR 20.1904]

15. RECORDKEEPING FOR DECOMMISSIONING

a. Are records kept of information important to decommissioning?(YES) (NO) (N/A)[10 CFR

NUREG - 1556, Vol. 1, Rev. I

30.35(8)]

b. Do records include all in human and include all include all

16. BULLETINS AND INFORMATION NOTICES

a. Are NRC bulletins, NRC Internation Notices, and NMSS Newsletters, received? (YES) (NO) (N/A)

ļ

b. Is appropriate training and union taken in response? (YES) (NO) (N/A)

17. SPECIAL LICENSE CONDITIONS OR ISSUES

a. Did the auditor review special license conditions or other issues (e.g., non-routinemaintenance)? (YES) (NO) (N/A)

18. DEFICIENCIES IDEN MED IN AUDIT; CORRECTIVE ACTIONS

a. Summarize problems and/or deficiencies identified during the audit. (REMARKS)

PACKAGE LABELING AND TRANSPORT L'NEO MISSING

APPENDIX F

b. If problems and/or deficiencies were identified in this audit, describe the corrective actions planned or taken. Are corrective actions planned or taken at ALL licensed locations (not just location audited)? (YES) (NO) (N/A)

OFFLATORS DIRECTED TO VERIEY LABELING Provide any other recommendations for improvement. AND DOCUMENTATION (REMARKS) PRIOR TO GAUGE SIGN OUT FENIND OFFRATOLS @ QTRLY MEETINGS c. **19. EVALUATION OF OTHER FACTORS** Is senior licensee management appropriately involved with the radiation protection program a. and/or RSO oversight?/(YES))(NO) (N/A) b. Does RSO have sufficient time to perform his/her radiation safety duties? (YES) (NO) (N/A) Does licensee have sufficient staff to support the radiation protection program? (YES) (NO) c. (N/A)AS STAFF AND GAUGE INVENTORY INCREASE SO WILL NEED FOR RS O ASSISTANCE

-, ·

TO RADIATION & SAFTY OFFICED

SEPTEMBER 22,2004 AT ABOUT 2PM, AFTER I HAVE FINISHED PERFORMING 2^{Md} LIFT DENISTY TEST OF PARKING DRIVE AREA, HOME DEPOT (OCRANBURY, AND WAITING FOR THE PROCEEDING LIFT, I WAS SITTING IN MY TRUCK RECORDING THE TEST RESULTS IN MY REPORT SHEET, MY DENSITY GAUGE #33316 WAS PLACED INSIDE THE ISLAND BETWEEN FIRE HYDRANT AND LIGHT POLE MNDER MY SERVELLANCE APROXIMATELY 90 FEET AND APPROACHED BY & NRC INSPECTORS.

THE GAUGE WAS UNDER MY CONSTANT SERVELLANCE AND IT WAS NOT IN DANGER BEING DAMAGED BY CONSTRUCTION EQUIPMENT.

GIZAW MAICURIA OCTOBER 28,2004



U.S. Engineering Laboratories, Inc.

9/24/04

ACII

TO WHOM IT MAY CONCERN

I HARSHAD. C PATEL EMPLOYEE OF

USILABS WORKING AT TISTATION RD IN CRANBURY N'S, WAS QUESTIONED BY N'R'C AND ASKED WHERE. I KEEP THE GAUGE I USIJALLY KEEPTHE GAUGE LOCKED IN THE THE TRUNCK OF MY VEHICLE. BUT WHEN A PAROCHED BY N'R'C I WAS NERVOUS AND TOLD THEM I KEEP IT IN THE CLOSET OF MY APARTMENT WHICH WAS A FALSE STATEMENT.

Harghed . C. Patel

TO RADIATIORIS SAFETY OFFICE

IN ADDITION TO THE MEMORAHOUM I SUBMITTED OCTOBER 28,2004 I HAVE THE FOLLOUINING

WHENEVER I AN OBLIGED TO TAKE THE GAUGE HOME I PUT TT IN A LOCKED BOX AND PLACE IT IN 2^{MA} FLOOR BALLONY WHERE NO ONTENDER COULD REACH, INFACT, SINCE THERE ARE PARKING GARAGES BELOW THE FIRST FLOOR, MY APARTMENT BALLONY WOULD BE 3^{MA} FLOOR FROM THE GROUND AND THERE IS NO ACCESS TO THE BALCONY FROM OUTSIDE. PICTURES OF FRONT AND BACK VIEWS OF NY APARTMENT COULD BE SUBMITTED IF RE QUESTED.

GIZAW MAKURIA DC-TOBER 29,2004

T-Mobile

Page 1 of 1

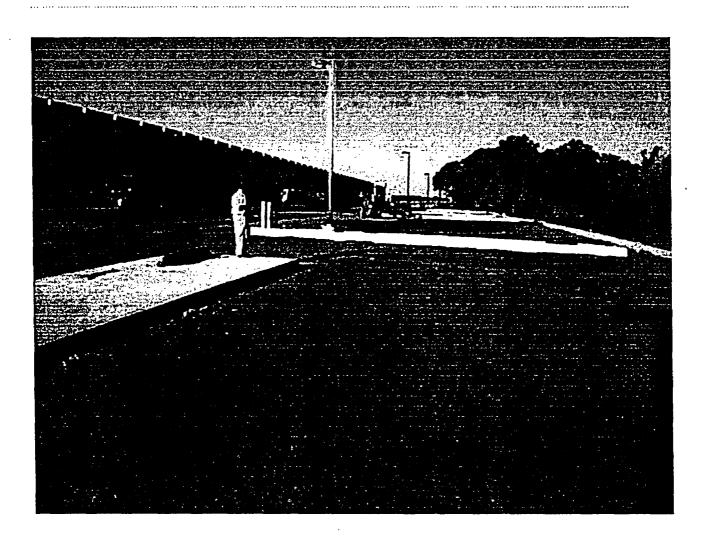
Get more from life

.

÷

Martin Mygrant

From: 6098681229@tmomail.net Sent: Thursday, October 28, 2004 9:24 AM To: Martin Mygrant



 $\cdots \mathbf{T} \cdot \cdot \mathbf{Mobile}$

This message was sent from a T-Mobile wireless phone.

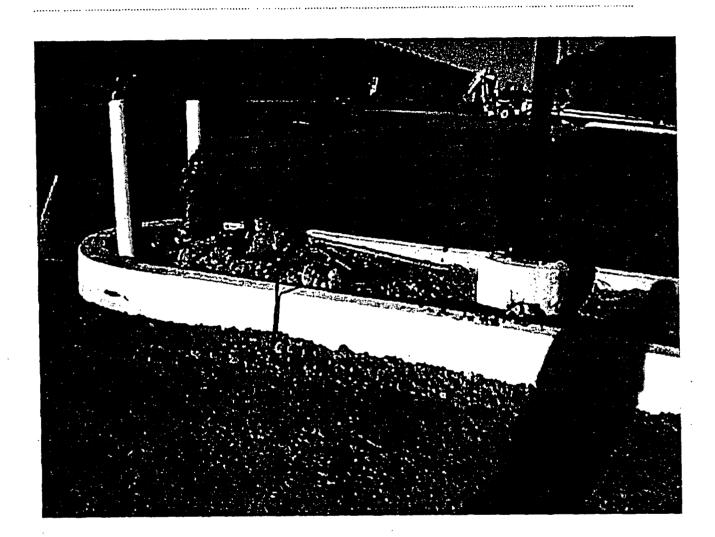
10/29/2004

Ē

A REAL PROPERTY OF

Martin Mygrant

From: 6098681229@tmomail.net Sent: Thursday, October 28, 2004 9:28 AM To: Martin Mygrant



··· T··· Mobile·

Get more from life

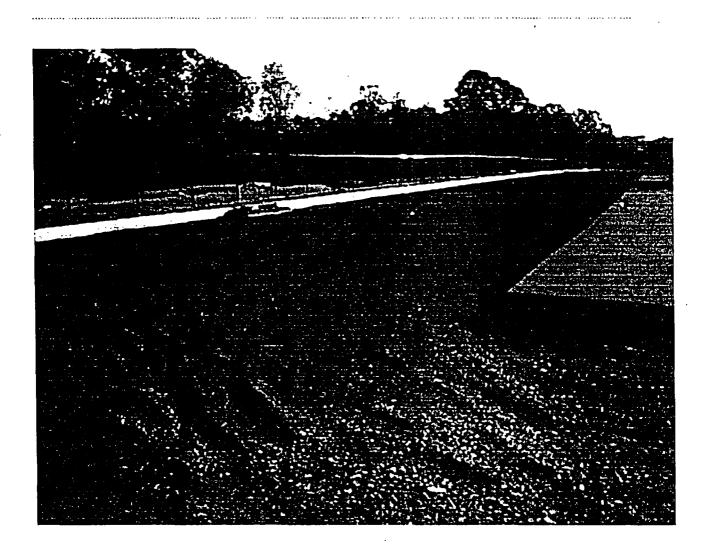
This message was sent from a T-Mobile wireless phone.

T-Mobile

- ----

Martin Mygrant

From: 6098681229@tmomail.net Sent: Thursday, October 28, 2004 9:28 AM To: Martin Mygrant



 $\cdot \cdot \mathbf{T} \cdot \cdot \mathbf{M}$ obile \cdot

Get more from life

This message was sent from a T-Mobile wireless phone.