

RI - DNMS Licensee Event Report Disposition

Licensee: GEO Mechanics, INC
 Event Description: THEFT/RECOVERY OF HUMBOLDT SCIENTIFIC INC MODEL 5001 NUCLEAR GAUGE
 License No: 37 17332-01 Docket No: 030 12568 MLER-RI: 2006-003
 Event Date: 4/18-19/05 Report Date: 9-19-05 HQ Ops Event #:

1. REPORTING REQUIREMENT

<input checked="" type="checkbox"/> 10 CFR 20.1906 Package Contamination	<input type="checkbox"/> 10 CFR 30.50 Report
<input checked="" type="checkbox"/> 10 CFR 20.2201 Theft or Loss	<input type="checkbox"/> 10 CFR 35.3045 Medical Event
<input type="checkbox"/> 10 CFR 20.2203 30 Day Report	<input type="checkbox"/> License Condition
<input type="checkbox"/> Other	

2. REGION I RESPONSE

<input type="checkbox"/> Immediate Site Inspection	Inspector/Date	<input type="checkbox"/>
<input type="checkbox"/> Special Inspection	Inspector/Date	<input type="checkbox"/>
<input type="checkbox"/> Telephone Inquiry	Inspector/Date	<input type="checkbox"/>
<input checked="" type="checkbox"/> Preliminary Notification/Report	<input type="checkbox"/> Daily Report	<input type="checkbox"/>
<input checked="" type="checkbox"/> Information Entered in RI Log	<input type="checkbox"/> Review at Next Inspection	<input type="checkbox"/>
Report Referred To: <u></u>		

3. REPORT EVALUATION

<input checked="" type="checkbox"/> Description of Event	<input checked="" type="checkbox"/> Corrective Actions
<input checked="" type="checkbox"/> Levels of RAM Involved	<input checked="" type="checkbox"/> Calculations Adequate
<input checked="" type="checkbox"/> Cause of Event	<input checked="" type="checkbox"/> Additional Information Requested from Licensee

4. MANAGEMENT DIRECTIVE 8.3 EVALUATION

<input checked="" type="checkbox"/> Release w/Exposure > Limits	<input checked="" type="checkbox"/> Deliberate Misuse w/Exposure > Limits
<input checked="" type="checkbox"/> Repeated Inadequate Control	<input checked="" type="checkbox"/> Pkging Failure > 10 rads/hr or Contamination > 1000x Limits
<input checked="" type="checkbox"/> Exposure 5x Limits	<input checked="" type="checkbox"/> Large# Indivs w/Exp > Limits or Medical Deterministic Effects
<input checked="" type="checkbox"/> Potential Fatality	<input checked="" type="checkbox"/> Unique Circumstances or Safeguards Concerns

If any of the above are involved:

☒ Considered Need for IIT 3/22/06 ☐ Considered Need for AIT

Decision/Made By/Date: IIT / AIT Thresholds not exceeded

5. MANAGEMENT DIRECTIVE 8.10 EVALUATION (additional evaluation for medical events only)

☒ Timeliness - Inspection Meets Requirements (5 days for overdose / 10 days for underdose)
☐ Medical Consultant Used-Name of Consultant/Date of Report:
☐ Medical Consultant Determined Event Directly Contributed to Fatality
☐ Device Failure with Possible Adverse Generic Implications
☐ HQ or Contractor Support Required to Evaluate Consequences

6. SPECIAL INSTRUCTIONS OR COMMENTS

THIS EVENT EVALUATED AS PART OF INSPECTION 03012568/2006001

☐ Non-Public

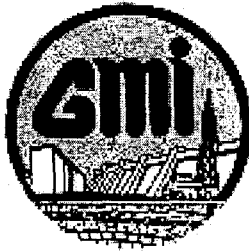
Inspector Signature: James W. Schmitt

Date: 3/22/06

☒ Public-SISP REVIEW COMPLETE

Branch Chief Initials: JS

Date: 3/23/06



GeoMechanics, Inc

Millennium III Professional Park, 600 Munir Drive
P.O. Box 386, Elizabeth, PA 15037-0386
Phone: (724) 379-6300 • Fax: (724) 379-4242

E-Mailed February 9, 2006
(RidsRgn1MailCenter@nrc.gov)

United States Nuclear Regulatory Commission, Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

Re: Materials License No. 37-17332-01
**Incident Report: Theft and Recovery of
Humboldt Scientific, Inc. Model 5001
Nuclear Gauge, S/N 4730**

Ladies and Gentlemen:

Pursuant to 10CFR20.2201, Humboldt Scientific, Inc. Model 5001, Serial Number 4730 surface moisture-density gauge (manufacturer's certificate attached) was stolen from a GeoMechanics, Inc. company truck in the parking lot at the Holiday Inn Express at 95 RHL Boulevard, South Charleston, West Virginia 25309. The theft occurred between late Sunday evening, September 18 and the following morning, September 19, 2005. The gauge was being transported to a construction project site near St. Albans, West Virginia by Justin Harakal, a full-time employee of GeoMechanics, Inc. The gauge was ultimately recovered on Friday September 23, 2005. Upon screening, the gauge sources were determined to be intact and undamaged.

Throughout the period from the loss to the recovery of the gauge, GeoMechanics, Inc. was in close contact with Ms. Judith Joustra and Ms. Michelle Beardsley of the NRC Region 1 and had issued separate press releases following both the loss and the recovery of the gauge. Both press releases were reviewed by these individuals prior to public release, and copies of the final releases were forwarded to the NRC Region 1. As a result, it was our understanding that the 30-day reporting requirements of 10CFR20.2201(2)(b) had been satisfied. During an inspection by Mr. Jim Schmidt, CHP of the NRC on January 12, 2006, GeoMechanics, Inc. was advised that the press releases did not satisfy the reporting requirements of 10CFR20.2201(2)(b) and that a separate report should be filed. This letter and attachments represent our formal report for the incident.

1. Licensed Material Involved

Humboldt Scientific, Inc. Model 5001, Serial Number 4730, surface moisture-density gauge was stolen. The manufacturer's certificate is included as Attachment A and identifies the kind, quantity and chemical and physical form of the licensed material. A copy of the most recent Leak Test Report prior to transport of the gauge on September 18, 2005 is included as Attachment B. Please note that when the NRC was originally contacted on the morning of September 19, 2005, the gauge serial number was incorrectly reported as 4731.

E-Mailed February 9, 2006

2. Description of Circumstances at Time of Loss

The gauge was stolen from a GeoMechanics, Inc. company truck in the parking lot at the Holiday Inn Express at 95 RHL Boulevard, South Charleston, West Virginia 25309. The theft occurred overnight between Sunday evening, September 18 and Monday morning, September 19, 2005. The gauge was being transported to a construction project site near St. Albans, West Virginia by Justin Harakal, a full-time employee of GeoMechanics, Inc.

A Memorandum prepared by Mr. Harakal describing the circumstances under which the theft occurred is included as Attachment C. A copy of the Police Report filed by Officer Crowder of the South Charleston Police Department is included as Attachment D.

Following confirmation that the Police had arrived at the location of the theft, Walter M. Lorence, RSO of GeoMechanics, Inc. contacted Region 1 NRC to report the incident. The receptionist stated that no agents were available at the time. Mr. John Knoke, NSIR of the NRC Operations Branch subsequently responded to Mr. Lorence's phone message. Mr. Lorence was then contacted by Ms. Michele Beardsley of Region 1 who requested that she should be the "point of contact" for the incident.

3. Disposition of Material Involved

The stolen device was recovered on September 23, 2005. The device container was observed alongside a State Highway in Boone County, West Virginia. Mr. Greg Lay, Director of the Boone County Office of Emergency Services, contacted Mr. Lorence to confirm siting of the device container. Mr. Lay stated that he did not have a radiation survey meter. Mr. Lorence requested that a minimum 15-foot security zone be maintained around the container and that an individual be assigned to maintain surveillance of the container until appropriately trained personnel could be dispatched to the site to screen, secure and recover the device. Mr. Lay and Trooper C.R. Sutphin of the West Virginia State Police agreed.

Mr. Lorence then contacted Applied Health Physics, Inc. (AHP) and authorized them to recover the stolen device, if present in the observed container. A copy of the AHP Field Service Report is included as Attachment E, and a copy of West Virginia State Police Complaint Report No. 424523 is included as Attachment F.

4. Exposures of Individuals to Radiation

As indicated in the AHP report, the gauge was recovered with the source rod padlock intact; and the results of the radiation survey of the device were consistent with those specified by the manufacturer with the source rod in the shielded position. Therefore, the likelihood of exposure of individuals to radiation is negligible.

E-Mailed February 9, 2006

5. Actions Taken to Recover the Loss

See Item 3 above.

6. Procedures Adopted to Avoid Future Theft

Since the incident occurred, all authorized gauge users have received recurrent training for transportation of nuclear gauges in compliance with current DOT and NRC regulations. Specific attention has been given to the requirement for double security of the devices when not under full-time surveillance. In addition, GeoMechanics, Inc. has ordered and is awaiting delivery of metal containers that comply with current regulations for double security to be attached to the bed of each of its company trucks for transport of nuclear gauges.

Should you have any questions regarding this report or any of the attachments, please contact the undersigned at (724)-379-6300.

Very truly yours,

GEO-MECHANICS, INC.



Walter M. Lorence, P.E.
Radiation Safety Officer

\WML

Attachments:

- A – Humboldt Scientific, Inc. 5001 Nuclear Gauge Certificate, S/N 4730
 - B – Applied Health Physics, Inc. Mark V Leak Test Certificate for Device S/N, Dated August 18, 2005
 - C – Memorandum of Justin Harakal, Dated October 4, 2005
 - D – South Charleston Police Department Verification of Incident, Dated October 17, 2005
 - E – Applied Health Physics, Inc. Field Service Report, Dated September 29, 2005
 - F – West Virginia State Police Complaint Report No. 424523
- cc: J. Schmidt (jws2@nrc.gov); T. Mobley (tmobley.ahp@adelphia.net)

ATTACHMENT A:

**Humboldt Scientific, Inc.
5001 Nuclear Gauge Certificate**

HUMBOLDT SCIENTIFIC, INC.
5001 NUCLEAR GAUGE CERTIFICATE

This document should be retained by the owner of this device as it contains information pertaining to the radioactive sources, license number of the manufacturer and date of transfer.

HSI Model 5001 EZ122 Compaction Control Gauge, Serial: 4730

Transferred on (date): 08/09/2004

FROM	:	TO
Humboldt Scientific, Inc.	:	GeoMechanics, Inc.
Radiation Safety Department	:	600 Munir Drive
551-D Pylon Drive	:	Millennium III Professional Park
Raleigh, NC 27606	:	Elizabeth PA 15037
Device Registration No. NC356D101S	:	
Lic. No. 092-750-1		Lic. No. 37-17332-01
Exp. Date 07/31/2005		Exp. 07/31/2013

Contains the following sealed radioactive sources:

	SOURCE 1	SOURCE 2
HSI Source Dwg. Number	2200064	2200067
Serial Number	5849CM	NJ04996
Radioisotope	Cesium-137	Americium-241:Be
Measurement (nom)	10 mCi/0.37GBq	40 mCi/1.48GBq
Neutron Yield (nom)	0	9 X 10E4 n/s
ANSI/ISO Classification	C66546	E66545
Special Form Certificate	USA/0634/S Rev1	USA/0632/S Rev 0
USNRC Registration	CDC.805	AMN.V997
Measurement Date	05/27/2004	04/08/2004
Leak Test Date *	08/09/2004	08/09/2004

* The capsules are wiped with filter paper moistened with ethanol. The activity removed was less than 0.005uCi (0.19kBq).

The leak test is valid for a period of six months from the date indicated at which time another test must be obtained

These capsules have been tested by the manufacturer and meet the requirements of the US Department of Transportation as defined in Title 49, parts 100-185 and the International Atomic Energy Agency Regulations for the Safe Transport of Radioactive Materials, Safety Series 6 as they pertain to special form encapsulation.

The 5001 Gauge has an ANSI Classification of 54-575-785-R3
in accordance with ANSIN538-1979 and ANSIN542-1977

SEE REVERSE SIDE FOR TRANSIT CASE CERTIFICATION

TRANSIT CASE CERTIFICATION

The HSI 5200169, 5200554 and 5200681 Transit Cases have been designed and tested to US Department of Transportation requirements as defined in Title 49CFR Parts 100-185. The design is in accordance with 173.411 and 173.412 for Type A packaging. Testing while loaded to a gross weight of 120 pounds included:

- 173.465 (b) Water Spray Test of 5 cm/hr for one hour prior to each of the following tests.
- 173.465 (c) (1) Free drop test from a height of 1.2 m.
- 173.465 (c) (4) Drop on each corner from a height of 0.3 m.
- 173.465 (d) Compression test of 387 kg for 24 hours.
- 173.465 (e) Penetration test of a 6 kg bar, 3.2 cm diameter dropped from a height of 1.0 m.

Following each of the tests, there was no loss or dispersal of the contents nor any measurable increase in radiation levels at the external surfaces from the condition prior to the test. Copies of this test data are on file at, and may be obtained from, Humboldt Scientific, Inc.

Labels attached to two opposite sides of the case:

RADIOACTIVE Yellow II with 0.2 Transport Index
RQ: RADIOACTIVE MATERIAL, SPECIAL FORM, 7, UN3332
USA DOT 7A TYPE A Package
and a CARGO ONLY label

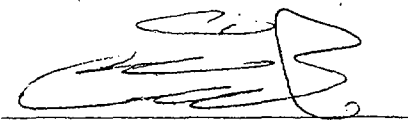
An outer cosmetic fiberboard container may be employed with the same labels plus an additional notice that the inner container meets the applicable specifications.

The case is designed for multiple use provided the hinges, latches and lock are intact and the labels are readable.

If the gauge or case locks are not used, a suitable security seal must be employed.

HUMBOLDT SCIENTIFIC, INC.

551-D Pylon Drive
Raleigh, NC 27606
Tel: (919) 832-6509
Fax: (919) 833-5283


Radiation Safety Officer

SEE REVERSE SIDE FOR GAUGE CERTIFICATION

ATTACHMENT B:

**Applied Health Physics, Inc.
Mark V Leak Test Certificate
Device Serial Number 4730
Leak Test Performed on 08/10/05**

Applied Health Physics, Inc.

2986 Industrial Blvd., Bethel Park, Pa 15102 Phone: (412) 835-9555 Fax: (412) 835-9559
E-Mail address: ahp.inc@adelphia.net - Web Page address: WWW.APPLIEDHEALTHPHYSICS.COM

Mark V Leak Test Certificate

This certificate shall not be reproduced except in full, without the written approval of Applied Health Physics, Inc.

Device Information

Device Serial Number:	4730	Source Serial Number:	NJ04996 / 5849CM
Device Manufacturer:	Humboldt	Source Manufacturer:	Humboldt
Device Model:	5001	Source Model:	5001
Device Type:	Gauge - R	Make:	Gauge "R"
Radioisotope:	Am-241Be / Cs-137	Location:	North Carolina
	Activity:		40 / 10 mCi

Leak Test Information

Leak Test Performed by:	Todd Bolin	Leak Test Performed on:	8/10/05
Leak Test Specimen Number:	A-023983	Leak Test Analysis Date:	8/18/05
Leak Test Analysis Performed by:	D. Deremer		
Leak Test Results Indicate an Activity of:	< 0.005 uCi		

Notification

The analysis of this leak test sample was provided by Applied Health Physics, Inc. U.S. Nuclear Regulatory Commission License Number 37-09135 and State License Number PA-0228. In the event this specimen indicates leakage and or contamination in excess of 0.005 microcuries, Applied Health Physics, Inc. will notify you promptly by telephone; at such time you will need to take the appropriate actions required by the governing regulatory agency. Applied Health Physics, Inc. is required by our license to report leakage and/or contamination in excess of 0.005 microcuries.

Client Information

GeoMechanics, Inc.	Contact:	Walter M. Lorence
600 Munir Dr.	Phone:	(724) 379-6300
PO Box 386	Contact:	FAX
	Phone:	(724) 379-4242
Elizabeth	PA	15037

Individual notified _____ Time _____ Date _____ - Client

Individual notified _____ Time _____ Date _____ - Agency

This certificate is an essential record and should be maintained for inspection by the regulatory agency.

Next LT Due 2/10/06

ATTACHMENT C:

**Memorandum
From Justin L. Harakal
To Walter M. Lorence
Dated October 4, 2005**

Memorandum



To: Walter M. Lorence (GMI)
From: Justin L. Harakal (GMI)
Date: October 4, 2005
Subject: Theft of Nuclear Gage

On September 18, 2005 I went to the Geo-Mechanics, Inc. office to pick up a Humboldt nuclear density gauge to use on an out of town job in Seng Camp Hollow, WV. Before leaving the Geo-Mechanics, Inc. office I secured the nuclear density gauge to the bed of the pick up to the best of my knowledge. The gauge was chained to the bed of the truck and locked using a master lock supplied by Troxler. The gauge was also held in place using a tie down strap. I arrived at the Holiday Inn Express located at 95 RHL Boulevard, South Charleston, WV at approximately 9:30 p.m.

On September 19, 2005 when arriving at the truck at approximately 6:50 a.m. I noticed that the master lock was cut and the Humboldt gauge was missing out of the bed of the truck. At this time I immediately contacted Walter M. Lorence the Geo-Mechanics, Inc. Radiation Safety Officer (RSO) to inform him of the incident. The (RSO) instructed me to contact the South Charleston police department. The police reported to the hotel at approximately 7:45 a.m. Upon arrival at the hotel the officer took a brief statement from me, made a copy of the bill of lading, and took the Master lock. The officer left the hotel at approximately 8:30 a.m. at which time I left the hotel for the job site.

Very truly yours,

GEO-MECHANICS, INC.


Justin L. Harakal
Soils Technician

JLH:nk
wpg/NuclearGages\ Correspondence /JLH_memo.doc/nk

ATTACHMENT D:

**South Charleston Police Department
Verification of Incident
October 17, 2005**



SOUTH CHARLESTON POLICE DEPARTMENT
4TH AVENUE & D STREET
SOUTH CHARLESTON, WEST VIRGINIA 25303

CHIEF D. W. DUNLAP
744-6903

EMERGENCY - 911
DETECTIVE BUREAU - 744-5951
FAX 304-744-5307

RICHARD ROBB, MAYOR
744-5301

VERIFICATION OF INCIDENT

October 17, 2005

DATE OF REPORT: 09-19-05

INCIDENT DATE: 09-18-05

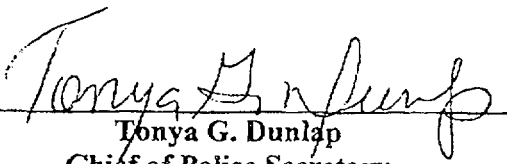
REPORT NUMBER: 2005-01372

VICTIM: GEO Mechanics Inc.

CRIME REPORTED: Theft from Motor Vehicle (Copy of Narrative Attached)

Per the Rules and Regulations of the City of South Charleston, to obtain a copy of report, a subpoena is required.

If you have any questions, please feel free to contact me at 744-6903 ext. 105


Tonya G. Dunlap
Chief of Police Secretary

REPORT FAXED TO 724-379-4242 C/O BETTY MURPHY - GEO

Entered By: TONYA G DUNLAP, On 9/21/2005 11:58:06 AM

Title: GRAND LARCENY FROM VEHICLE

NARRATIVE TYPED BY OFFICER CROWDER:

ON 09-19-05 THIS OFFICER WAS DISPATCHED TO THE HOLIDAY INN EXPRESS LOCATED AT 95 RHL BLVD SOUTH CHARLESTON WV ON THE REPORT OF A THEFT FROM MOTOR VEHICLE. UPON ARRIVAL I SPOKE WITH THE COMPLAINANT, JUSTIN HAKAKAL, ABOUT THE INCIDENT. MR. HAKAKAL STATED THAT HE PARKED THE LISTED VEHICLE IN THE PARKING LOT OF THE HOLIDAY INN EXPRESS AT APPROXIMATELY 2230 HRS ON 09-18-05 AND WHEN HE RETURNED TO THE VEHICLE AT 0645 HRS ON 09-19-05 THE LISTED ITEM, A HUMBOLT NUCLEAR DENSITY GUAGE, HAD BEEN STOLEN OUT OF THE BACK. IT APPEARS THAT THE UNKNOWN SUSPECT(S) USED BOLT CUTTERS TO CUT THE PADLOCK OFF THE CHAIN THAT THE ITEM WAS SECURED TO THE BED OF THE VEHICLE. THE ITEM CONTAINS RADIOACTIVE MATERIAL AND HAS RADIOACTIVE SYMBOLS ON IT. THERE ARE NO SUSPECTS AT THIS TIME AND NO FURTHER INFORMATION IS AVAILABLE.

A COPY OF THE BILL OF LADING FOR THE ITEM IS ATTACHED TO THE REPORT.

CONTACT PERSON W/ GEO MECHANICS INC. IS WALTER LORENCE 724-379-6300

BILL OF LADING

Shipper: GeoMechanics, Inc.
600 Munir Drive
P.O. Box 386
Elizabeth, PA 15037

**RQ, RADIOACTIVE MATERIAL, SPECIAL FORM, NOS, 7, UN3332,
TYPE "A" PACKAGE, CONTAINING:**

**Cs-137 0.37 GBq (10 mCi)
Am-241:Be 1.48 GBq (40 mCi)**

RADIOACTIVE YELLOW II LABEL, TI = 0.2

******PRIMARY EMERGENCY CONTACT: Walter M. Lorence******

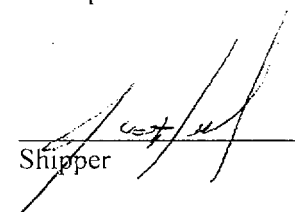
******PRIMARY EMERGENCY PHONE NO. (724) 323-5939******

OR

******ALTERNATIVE EMERGENCY CONTRACT: APPLIED HEALTH PHYSICS, INC.******

******ALTERNATIVE EMERGENCY PHONE NO. (800) 332-6648******

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.



Shipper

(HUMBOLDT GAUGE Q)

ATTACHMENT E:

**Applied Health Physics, Inc.
Field Service Report
September 29, 2005**



COMPLETE RADIOLOGICAL SERVICES

GeoMechanics, Inc.
600 Munir Drive
Elizabeth, PA 15037
Attention: Walter Lorence

September 29, 2005

FIELD SERVICE REPORT

Introduction

Applied Health Physics, Inc. was contacted by Walter Lorence, Radiation Safety Officer of GeoMechanics, Inc., with a request for radiological emergency response services. GeoMechanics, Inc. is licensed by the United States Nuclear Regulatory Commission (USNRC) to possess and use, portable devices containing radioactive sealed sources to measure the physical properties of material.

One such device, identified as a Humboldt Scientific, Inc. Model 5001 moisture density gauge, was stolen from a truck at a Holiday Inn motel located in South Charleston, West Virginia on Sunday September 18, 2005. The device contained approximately 10 millicuries of Cesium-137 and 40 millicuries of Americium-241. The USNRC was notified on September 19th, 2005 of the theft as required.

On September 23rd, 2005, at approximately 2:14 PM, two land surveyors discovered the missing container at the bottom of a hill on Rock Creek Road, located in Danville, WV, 20 miles south of Charleston. GeoMechanics, Inc. requested Applied Health Physics, Inc. to inspect the container and device, retrieve the device from police surveillance and return both to the AHP licensed facility in Bethel Park, PA.

Description of Services

Applied Health Physics, Inc. Technical Specialist Anthony Hull and technician Jordan Hull traveled to the Danville, WV location to retrieve the device. Upon arrival, the AHP representatives met with Boone County Office of Emergency Services Director, Greg Lay and West Virginia State Police Trooper, CR Sutphin. The officials escorted the AHP technicians to the container as found.

The scope of services included the following:

- Determination of *natural background radiation levels*
- Visual and radiological inspection of the container and device as found
- Radiation surveys of the container and device
- Verification of serial number and contents of the case
- Documented report including findings

2986 Industrial Blvd., Bethel Park, PA 15102 Phone: (800) 332-6648 (412) 835-9555
Fax: (412) 835-9559 E-Mail address: ahp.inc@adelphia.net
Web Page address: WWW.APPLIEDHEALTHPHYSICS.COM



Instrumentation

Applied Health Physics, Inc. utilized the following portable survey instruments:

Manufacturer	Model	Serial Number	Calibration Due	Background
Bicron	Surveyor 2000	B544Q	11/12/05	0.02 mR/hour
Eberline	E-520	1432	10/12/05	30 CPM

Findings

Shipping Container Inspection

AHP representatives verified that the USDOT Type A shipping container lock had been removed but case integrity had not been compromised. The container was re-locked by AHP personnel and deemed satisfactory for transfer.

Device Inspection

AHP representatives verified that the portable gauging device had not been tampered with and the source rod padlock was still intact. No damage was apparent.

Radiation Survey Results

The results of the radiation survey of the shipping container were consistent with USDOT *diamond label* measurements. The results of the radiation survey of the Humboldt Scientific, Inc. device were consistent with those specified by the manufacturer with the source rod in the shielded position.

Sealed Source Leak Testing

AHP Technician Cynthia Barto conducted leak testing and analysis of the two sealed sources. The results verified that the source capsules had remained intact.

Recommendations

Applied Health Physics, Inc. recommends the following:

- Retain copies of this report and attachments for regulatory inspection.

If you have any questions in reference to this report, please contact our office at (412)-835-9555.

Report completed by:

Anthony L. Hull

Anthony L. Hull

Technical Specialist

Applied Health Physics, Inc.

2986 Industrial Blvd., Bethel Park, Pa 15102 Phone: (412) 835-9555 Fax: (412) 835-9559
E-Mail address: ahp.inc@adelphia.net - Web Page address: WWW.APPLIEDHEALTHPHYSICS.COM

Mark V Leak Test Certificate

This certificate shall not be reproduced except in full, without the written approval of Applied Health Physics, Inc.

Device Information

Device Serial Number:	4730	Source Serial Number:	NJ04996 / 5849CM
Device Manufacturer:	Humboldt	Source Manufacturer:	Humboldt
Device Model:	5001	Source Model:	5001
Device Type:	Gauge - R	Make:	Gauge "R"
		Location:	North Carolina
Radioisotope:	Am-241Bc / Cs-137	Activity:	40 / 10 mCi

Leak Test Information

Leak Test Performed by:	Cindy Barto	Leak Test Performed on:	9/26/05
Leak Test Specimen Number:	GM-092605-1 / GM-092605-2	Leak Test Analysis Date:	9/26/05
Leak Test Analysis Performed by:	C. Barto		
Leak Test Results Indicate an Activity of:	< 0.005 uCi		

Notification

The analysis of this leak test sample was provided by Applied Health Physics, Inc. U.S. Nuclear Regulatory Commission License Number 37-09135 and State License Number PA-0228. In the event this specimen indicates leakage and or contamination in excess of 0.005 microcuries, Applied Health Physics, Inc. will notify you promptly by telephone; at such time you will need to take the appropriate actions required by the governing regulatory agency. Applied Health Physics, Inc. is required by our license to report leakage and/or contamination in excess of 0.005 microcuries.

Client Information

GeoMechanics, Inc.	Contact:	Walter M. Lorence
600 Munir Dr.	Phone:	(724) 379-6300
PO Box 386	Contact:	FAX
	Phone:	(724) 379-4242
Elizabeth	PA	15037

Individual notified	Time	Date	- Client
Individual notified	Time	Date	- Agency

This certificate is an essential record and should be maintained for inspection by the regulatory agency.

Next LT Due 3/26/06

ATTACHMENT F:

**West Virginia State Police
Complaint Report 424523
September 23, 2005**

10/12/2005

09:38

WUWSP → 913047462209

424523

NO. 860

P02

INITIAL XX 2 SUPPLEMENTAL

WEST VIRGINIA STATE POLICE COMPLAINT REPORT

WVSP 183

CH <u>5320-12851</u>		RECOVERED <u>NO</u> ACTIVE DEVICE		VW STATUS: <u>1</u>		MEMBER: TROOPER FIRST CLASS C. R. SUTPHIN		PID# <u>576</u>	
REPORTED ON: DAY <u>FRI</u> DATE <u>09-23-05</u> TIME <u>1412</u>		OCCURRED FROM: DAY <u>MON</u> DATE <u>09-19-2005</u> TIME <u>1026</u>		OCCURRED TO: DAY <u>FRI</u> DATE <u>09-23-05</u> TIME <u>1412</u>					
CASE DISPOSITION: 1- EXCEPTION 2- ARRESTED 3- UNFOUNDED 4- PENDING ENTER NUMBER- <u>4</u>									
WEATHER: 1- CLEAR 2- CLOUDY 3- RAINING 4- FOG/SMOG 5- SNOW/SLEET 6- HAILING 7- UNKNOWN ENTER <u>2</u> TEMP <u>80'S</u>									
VEHICLE INFORMATION: 1- VICTIM'S VEHICLE 2- THEFT FROM VEHICLE 3- VANDALISM 4- SUSPECT VEHICLE RECOVERED 5- UNAUTHORIZED USE OF VEHICLE 7- STOLEN ENTER NUMBER <u>N/A</u>									
MAKE: <u>N/A</u>	MODEL: <u>N/A</u>	YEAR: <u>N/A</u>	REG: <u>N/A</u>	STATE: <u>N/A</u>	COLOR: <u>N/A</u>				
OWNER'S NAME: <u>N/A</u>					VIN: <u>N/A</u>				
CLEARED EXCEPTIONALLY: A- DEATH OF OFFENDER B- PROSECUTION DECLINED C- EXTRADITION DENIED D- VICTIM REFUSED TO COOPERATE ENTER LETTER _____ CLEARANCE DATE ____/____/____				OFFENSE: A- ATTEMPTED C- COMPLETED ENTER LETTER- <u>C</u>		ENTRY: F- FORCIBLE N- NONFORCIBLE ENTER LETTER <u>N/A</u>		SUSPECT USING: C- COMPUTER USED A- ALCOHOL RELATED D- DRUG RELATED ENTER LETTER <u>N/A</u>	
LOCATION/PLACE OF CRIME:									
01- AIRBUS/TRAIN TERMINAL 02- BANK/SAVINGS & LOANS 03- BARN/HT CLUB 04- CHURCH/SYNAGOGUE 05- COMMERCIAL/OFFICE BUILDING 06- CONSTRUCTION SITE 07- CONVENIENCE STORE 08- DEPARTMENT/DISCOUNT STORE 09- DRUG STORE/DR. OFFICE/HOSPITAL 10- FIELD/WOODS 11- GOVERNMENT/PUBLIC BUILDING 12- GROCERY/SUPERMARKET 13- HIGHWAY/ROAD/ALLEY 14- HOTEL/MOTEL/ETC 15- JAIL/PRISON/PENITENTIARY 16- LAKE/WATERWAY 17- LIQUOR STORE 18- PARKING LOT/GARAGE 19- RENTAL/STORAGE FACILITY 20- RESIDENCE/HOME 21- RESTAURANT 22- SCHOOL (OTHER THAN COLLEGE) 23- SERVICE/GAS STATION 24- SPECIALTY STORE 25- OTHER/UNKNOWN 26- COLLEGE/UNIVERSITY ENTER # <u>13</u>									
PLACE OF CRIME <u>BOONE COUNTY, SCOTT DISTRICT, NEAR THE CITY LIMITS OF DANVILLE. THIS INCIDENT OCCURRED NEAR THE INTERSECTION OF US 119 AND WEST VIRGINIA ROUTE 3 ROCK CREEK.</u>									
COMPLAINANT'S NAME: <u>DALE GRUBB</u>					TELEPHONE NUMBER: <u>(304) 558-3032</u>				
ADDRESS: <u>804 7TH AVENUE ST. ALBANS, WEST VIRGINIA 25177</u>									
VICTIM INFORMATION - TYPE OF VICTIM:									
A- ADULT L- LAW ENFORCEMENT OFFICER J- JUVENILE B- BUSINESS F- FINANCIAL INSTITUTION G- GOVERNMENT R- RELIGIOUS ORGANIZATION S- SOCIETY PUBLIC O- OTHER U- UNKNOWN ENTER LETTER <u>B</u>									
VICTIM'S NAME: <u>APPLIED HEALTH SERVICES</u> TELEPHONE NUMBER: <u>(412) 835-9555</u>									
ADDRESS: <u>2986 INDUSTRIAL BLVD. BETHEL PARK, PA. 15102</u>									
VICTIM'S DESCRIPTION									
DOB: <u>N/A</u>	AGE: <u>N/A</u>	SEX: <u>N/A</u>	HEIGHT: <u>N/A</u>	WEIGHT: <u>N/A</u>	HAIR: <u>N/A</u>	EYES: <u>N/A</u>	SSN: <u>N/A</u>		
RACE: W-WHITE B-BLACK I-AMERICAN INDIAN/ALASKAN NATIVE		ETHNICITY: A-ASIAN/PACIFIC ISLANDER U-UNKNOWN		ETHNICITY: H-HISPANIC N-NON HISPANIC ORIGIN U-UNKNOWN		RESIDENT STATUS: R-RESIDENT N-NON-RESIDENT U-UNKNOWN			
ENTER LETTER <u>N/A</u>		ENTER LETTER <u>N/A</u>		ENTER LETTER <u>N/A</u>		ENTER LETTER <u>N/A</u>			
IF VICTIM WAS INJURED IN ANY OF THE FOLLOWING OFFENSES, PLEASE ENTER TYPE OF INJURY - CHOOSE UP TO FIVE									
KIDNAPING FORCIBLE RAPE FORCIBLE SODOMY SEXUAL ABUSE WITH OBJECT ROBBERY FORCIBLE MOUNDING AGGRAVATED ASSAULT SIMPLE ASSAULT EXTORTION/BLACKMAIL APPARENT BROKEN BONES POSSIBLE INTERNAL INJURY SEVERE LACERATIONS MINOR INJURY OTHER MAJOR INJURIES LOSS OF TEETH UNCONSCIOUS NONE ENTER LETTER(S) <u>N / A</u>									
RELATIONSHIP OF VICTIM TO SUSPECT - NON-DOMESTIC RELATIONSHIPS ON BACK LINKAGE - IF VICTIM'S RELATIONSHIP WITH SUSPECT IS ONE OF THESE, COMPLETE DOMESTIC VIOLENCE ATTACHMENT									
SS- SPOUSE ES- ESTRANGED SPOUSE CS- COHABITATING PARTNER (NON EX) PA- PARTNER HR- HOMOSEXUAL RELATIONSHIP IP- INTIMATE PARTNER (OR EX) CP- CHILD OF INTIMATE PARTNER SP- STEP-PARENT BP- BROTHER DP- DAUGHTER GP- GRANDPARENT TP- TRAND-CHILD IL- IN-LAW SC- STEP-CHILD SS- STEP-SIBLING XS- EX-SPOUSE OP- OTHER FAMILY MEMBER OH- OTHER HOUSEHOLD MEMBER MB- BOYFRIEND/GIRLFRIEND ENTER LETTER <u>N/A</u>									

OCT 12 2005

ENTER LETTER N/A CR RECORDS

VICTIM INFORMATION CONTINUED

THESE RELATIONSHIPS ARE NOT DOMESTIC: VICTIM WAS

AC-AQUAINTANCE
FR-FRIEND
NE-NEIGHBOR
BP-BABYSITTER

OK-OTHERWISE KNOWN
CF-CHILD OF BOYFRIEND/GIRLFRIEND (NOT INTIMATE)
PE-EMPLOYEE
ER-EMPLOYER

RU-RELATIONSHIP UNKNOWN
ST-STRANGER
VO-VICTIM IS SUSPECT

ENTER LETTERS ST (CHOOSE ONE)

SUSPECT/ACCUSED INFORMATION

SUSPECT XX ACCUSED _____ NAME:

UNKNOWN

TELEPHONE:

ADDRESS:

ALIAS:

DOB:

AGE:

SEX:

HEIGHT:

WEIGHT:

HAIR:

EYES:

SS#

TATTOO/LOCATION:

SCARS/MARKS/LOCATION:

RACE:

W-WHITE

B-BLACK

I-AMERICAN INDIAN/ALASKAN NATIVE

A-ASIAN/PACIFIC ISLANDER

U-UNKNOWN

ETHNICITY:

H-HISPANIC

N-NON HISPANIC ORIGIN

U-UNKNOWN

RESIDENT STATUS:

R-RESIDENT

N-NON RESIDENT

U-UNKNOWN

ENTER LETTER _____

ENTER LETTER _____

ENTER LETTER _____

CDR # _____

MULTIPLE CLEARANCE INDICATOR:

M-MULTIPLE (THIS ARREST BEING USED TO CLEAR MORE THAN ONE OFFENSE)

N-NOT APPLICABLE

TYPE OF ARREST:

O-ON VIEW (NO WARRANT)

S-SUMMONED/CITED NO CUSTODY

T-ARRESTED ON WARRANT

ENTER LETTER _____

ENTER LETTER _____

ACCUSED WAS ARMED WITH: (CHOOSE UP TO TWO). IF AUTOMATIC WEAPON USED, ADD AN "A" TO CODE.

01-UNARMED

11-FIREARM (TYPE NOT STATED)

12-HANDGUN

13-RIFLE

14-SHOTGUN

15-OTHER FIREARM

16-LETHAL CUTTING INSTRUMENT

17-CLUB/BLACKJACK/BRASS KNUCKLES

ENTER # _____

IF ARREST MADE:

PLACE OF ARREST _____

DATE OF ARREST _____ / _____ / _____

TIME OF ARREST _____

JUVENILE DISPOSITION:

1-RELEASED TO PARENTS

3-REFERRED TO DHR

2-REFERRED TO JUVENILE COURT/PROBATION/JUVENILE DETENTION/JUVENILE PETITION

4-REFERRED TO OTHER POLICE AGENCY

5-REFERRED TO ADULT COURT

ENTER IF _____

PROPERTY

NCIC ENTRY - YES XX NO _____DATE OF ENTRY 09 22 05

STATUS CODE:

2-BURNED

3-COUNTERFEITED/FORGED

D-DAMAGED/DESTROYED

R-RECOVERED

S-SEIZED S-STOLEN

S-STOLEN AND RECOVERED

F-FOUND

QUANTITY	DESCRIPTION (COLOR, MAKE, MODEL, SERIAL NUMBER)	STATUS	VALUE OF LOSS	VALUE AT RECOVERY	DATE OF RECOVERY
01	HUMBOLDT MODEL 5001	R	\$ 5,000.00	\$ 5,000.00	09-23-2005
	SERIAL NUMBER 4730				
	VALUE:				

NARRATIVE - On Friday, September 23, 2005 at 1412 hours this officer responded to the intersection of US 119 and West Virginia Route 3 at Rock Creek. This officer responded to this location to the report of a possible stolen property. Upon arrival this officer met with Dale Grubb, of the West Virginia Division of Highways. Mr. Grubb showed this officer a yellow container believed to be a stolen radio active device stolen from Kanawha County, West Virginia. This officer confirmed the container. This officer then contacted Greg Lay, Boone Emergency Operations Director, in regards to this. Both this officer and Mr. Lay contacted the company that had reported the theft of the device. They company advised that there was no danger with the device, and that they would be sending a crew from Pittsburgh, PA. to recover the item.

When asked about treating this incident as a crime scene this officer was advised by Mr. Lay that the company was glad to get the device back, and they were not worried about pursuing a criminal investigation. This officer completed DPS 193 and photographed the container and the area it was recovered from. This officer made arrangements to secure the scene until the recovery team could arrive to secure the device.

On this same date at approximately 2100 hours Mr. Todd Mobley, with Applied Health Physics arrived and took possession of the recovered stolen property. All paper work from the recovery is attached to this report.

At the writing of this report this investigation is cleared by exceptional means.

WITNESSES _____

DOB _____

SS# _____

SIGNATURE: Heck R. SutcliffeDATE: 09 / 23 / 05

10/12/2005

Destination				
Company Applied Health Physics, Inc.				
Address 2900 Industrial Blvd.				
City	Bethel Park	State	PA	Zip Code 15102
Contact	Anthony Hull	Phone	(412) 835-9555	



Applied HEALTH PHYSICS, Inc.

Record # ANP-0905-1 Page 1 of 1

Date 9/23/05

2886 Industrial Blvd. Bethel Park, PA 15102 (412) 835-9556

Generator Location Found
Address OFF OF Rock Creek Road
City Danville State WV Zip Code 25803
Contact Greg LAY Phone (304) 269-7273
Shipment # G-94-0905-

Carrier (If other than AHP) N/A
 Address _____
 City _____ State _____ Zip Code _____
 Contact _____ Phone _____

			Radioactive material, excepted package-limited quantity of material	7 UN2910
			Radioactive material, excepted package-instruments or articles	7 UN2911
			Radioactive material, Type A Package non-special form, non fissile or fissile-excepted	7 UN2915
01	90	40 mCi Am-241 Be	Radioactive material, Type A package, special form non fissile or fissile-excepted	7 UN3332

24 Hour Emergency Contact: (412) 835-9555 or 1-800-332-6648

Radioactive Material Transfer Record and Receipt

[illegible]

This is to certify that the herein-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Anthony Hull R 7 Fall Technical Specialist 9/23/05
AHP Representative Signature Title Date
Greg A. Lay 9/23/20
General Representative Signature Title Date

Survey Instrument Information

Manufacturer: Bicron
Model: Surveyor 2000
Serial Number: B544Q
Expiration Due Date: 11/12/05