larerMike Inc.

(Formerly TECHMET COMPANY)

The LEADER in

A BUNZL Instrumentation Company

Non-Contact Gauging

April 4, 1990

34-258 19.026

Charles E. Norelius, Chief Division of Radiation Safety and Safeguards U.S. Nuclear Regulatory Commission Region III 799 Roosevelt Road Glen Ellyn, IL 60137

Regarding:

Your letter and Notice of Violation (NOV) dated March 6, 1990

Dear Mr. Norelius:

We have received the abovementioned letter and Notice of Violation. It is evident from the nature of our violations that LaserMike is an inexperienced handler of radioactive materials. Let me assure you that our violations stem from ignorance of required procedures, and not from willful disregard of NRC regulations.

LaserMike management has carefully considered the N.O.V. issues and examined our operation to ascertain how we might most effectively:

A. Correct existing oversights

B. Establish procedures and control systems to ensure that violations will not be repeated

C. Provide time frames for implementation of our plans.

The accompanying exhibits detail our responses to each violation and are incorporated by reference to this letter.

Hopefully, you and your staff will agree with us that our plans are broadly focused, effective, and have a high potential for long term effectivity. I say "potential" because any such plans or systems require management commitment and monitorization to maintain effectiveness. I ensure you that our management is committed to correcting the previous oversights and maintaining an organization which is compliant with NRC requirements.

9006270329 900404 REB3 L1C30 34-25899-26 PDC IE07

6 1990

An integral control feature of our proposed system is a "Probe Checklist" (see copy enclosed). This checklist will summarize all compliance issues (of which we are aware). I am requiring that no probe leave our premises until the checklist is completed (by our test and shipping departments), signed by our Radiation Safety Officer and by LaserMike's President. This monitorization and documentation requirement should ensure compliance with known regulations.

As an additional note, we conducted two training classes on March 9, 1990 wherein 21 LaserMike employees were trained on the NDC radioactive probe. The training was performed by Mr. Dan Fishman, President of NDC systems. All 21 people have since been issued certificates of Radiation Safety Training.

We wish to express our appreciation for the professionalism and courtesies extended to LaserMike by you and your staff. In particular, we thank Mr. Lambert for his patience and understanding of our situation. I look forward to personally meeting with you to express LaserMike's sincere desire to comply with NRC requirements.

Sincerely,

Stephen R. Cox

President

Response to Notice of Violations LaserMike, Inc. April 4, 1990

Violation Number -- 1

Type of Violation

Licensee Installed a device on July 7, 1989 and failed co conduct a radiation survey in the area to assure that the levels of radiation do not exceed those specified in License Condition No. 12.

Corrective Steps Taken

Mr. James Baker (LaserMike Service Mgr.), who has completed radiation safety training, visited the installation and performed the required survey. The installation was in compliance with License Condition No. 12. Copy of Mr. Baker's documentation is included as exhibit 1(a).

Steps Taken to Avoid Future Violations

 LaserMike will require that installation arrangements be made with probe recipients prior to shipment.

 Our shipping box will have a notice which requests the recipient not to open the box and hold until installer arrives.

3. We will require survey results to be physically attached to the checklist before the file is closed.

These will be conditions on the Probe Shipment Checklist. See example, exhibit 1(b).

Date of Full Compliance March 6, 1990 3-6-90 BAXTER

ID OD WELL 182 5457. 182-115 SU 9-624

NOC PLOBE MODEL 102 502018

500RCE AM 241

STEENETH 5.55 GB9

DATE 06/89

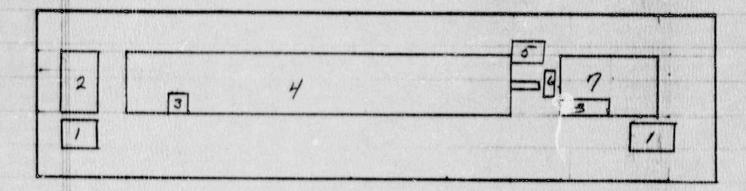
SITE AREA READINGS

BACK GROUND <.02 m R/HR

PROBE 2'RADIUS

SHUTTER OPEN D'EADING 2' TITE TOT

BAXTER HEALTHCARE
RT120 + WILSON RO
ROUND LAKE ILL. 600 93



ROOM APROX 70'LONG 17'WIRE 11'HIGH

- (1). OPERATOR WORK AREA
- (2). CUTTER, PULLER CONTROL PANEL
- (3). LASERMIKE NOC EQUIPENEUT
- (4). CURING OVEN
- (5). CURING OVEN CONTROL PANEL
- (6). LASER SCAVER NOC PRUBE
- (7). EXTRUDER
- (8) EXTRUDER CONTROL PANEL

EXHIBIT 1(b)

NDC PROBE CHECK LIST

CUSTOMER			P.O. #		
ADDRESS					
	Barba Madalahar	Comments	Initials	Date	
1.	Probe Model Number				
2.	Probe Seriai Number		****		
3.	Probe Labeled Correctly				
SH	IIPPING				
4.	Packed in approved box				
5.	DOT 7A Labels, 2 sides of box				
6.	Radioactive white I labels, 2 sides of box				
7.	Radioactive white I labels filled out				
8.	All carton seams taped	NAMES OF THE PERSON OF THE PER			
9.	To be opened by				
	LaserMike Inc. personnel only label on box				
10	Carton survey performed	THE WAR IN THE PARTY OF THE PAR	****		
	Radiation level		***************************************	-	
12	Declaration of dangerous				
	goods okay	的是在人员的是是国际政策的			
13.	Radioactive Device Notice		***************************************		
-	IDMENT ADDROVAL				
	IPMENT APPROVAL				
STATE OF THE REAL PROPERTY.	proved by RSO proved by President		***************************************	-	
7	proved by President				
Tra	ansfer notice sent to NRC, Wash.	. D.C. (Copy attached)	*****	-	
	ansfer notice sent to NRC or state				
INS	STALLATION				
Ins	talled by:				
Co	py of installation report and surve	y attached			
AF	TER INSTALLATION				
Le	ak test results received; copy atta	nched			
00	MDI ETION OF TARKS APPRO				
100	MPLETION OF TASKS APPRO	VAL			
	proved by RSO				
Ab	proved by President			***************************************	

Response to Notice of Violations LaserHike, Inc. April 4, 1990

Violation Number -- 2

2 to 1

Type of Violation Licensee failed to conduct a leak test of a device installed on July 7, 1989. A leak test is required by License Condition No. 15.

Corrective Steps Taken
LaserMike's Mr. James Baker (LaserMike Service Mgr.), who has completed radiation safety training, visited the installation and performed the leak test. The wipe test kit was sent to NDC systems for measurement. The results were returned to us on March 29, 1990 and the results were 4.0 Bg (see attached documentation, emibit 2(a)).

Staps ken to Avoid Future Violations

- i serMike will require that installation arrangements be made with probe recipients prior to shipment.
- Our shipping box will have a notice which requests the recipient not to open the box and hold until installer arrives.
- 3. We will require leak testing to be performed at the time of installation. Upon the receipt of the results from NDC, the Radiation Safety Officer will evaluate and determine compliance. The certificate to be physically attached to the checklist before the file is closed.

These will be conditions on the Probe Shipping Checklist.

Date of Full Compliance March 27, 1990



EXHIBIT 2(a)

730 EAST CYPRESS AVENUE MONROVIA, CALIFORNIA 91016 (818) 358-1871, TWX 910-585-3480 EASYLINK 910-333-6254 FAX (818) 303-5770

COPY

LEAK TEST CERTIFICATE

INSTALLATION

Owner: BAXTER HEALTHCARE CORP.

Address: Round Lake, IL

Model/Serial Number: 102 S/N 2018

Source Number	9473 LV	
Manufacturer	Amersham	
Isotope	Am-241	
Strength	5.55 GBq	
Model Number	AMCP1	
Date of Test	03/27/90	
Results*	< 4.0 Bq	

Dated:

03/27/90

Approved By:

PI Share

Response to Notice of Violations LaserMike, Inc. April 4, 1990

Violation Number -- 3

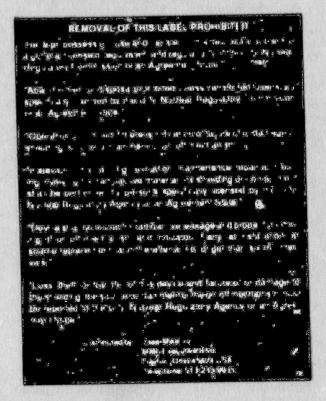
Type of Violation
Each device distributed shall bear a durable, clearly visible and legible label containing information receipt, possession, use, and transfer; abandonment and disposal; operation, installation, dismantling, relocation, maintenance, repair and testing; leak testing; and loss, theft, or transfer.

Corrective Steps Taken
We have created self adhesive labels which contain the required information. See example below.

Mr. James Baker (LaserMike Service Mgr.), who has completed radiation safety training, visited the installation and attached the label to the probe in question.

Steps Taken to Avoid Future Violations
LaserMike's test department will attach the label to each probe.
Our "Probe Checklist" will have this procedure as a "check item"
which will be challenged by the Safety Radiation Officer upon his
review. This monitorization and documentation requirement should
ensure compliance with Licensee Condition Number 16.

Date of Full Compliance March 6, 1990



Response to Notice of Violations LaserWike, Inc. April 4, 1980

Violation Number -- 4(a)

Type of Violation Licensee is to have their portable survey instrument calibrated annually.

Corrective Steps Taken
Our survey meter was sent to Radiation Service Organization in
Laurel Maryland where National Institute of Standards Traceable
Calibration was performed. A certificate of calibration dated
February 8, 1990 was issued for the instrument (see copy attached
as exhibit 4(a)(1).

Steps Taken to Avoid Future Violations
This instrument will be due for the recalibration on or before February 8, 1991. To prevent future violations, the RSO will maintain a tickler file to assure timely follow up. An additional and identical survey meter has been purchased to provide continuity and back up while one survey meter is absent due to for calibration or repair.

Date of Full Compliance February 8, 1990

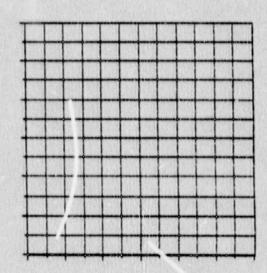
RSO (ORDER 0	2,932
P.O.	21257	

CERTIFICATE OF CALIBRATION

ISSUED TO		***************************************		INSTRUMENT
Customer	LaserMike Inc.			Make: S. E. International
The second second second second	6060 Executives 6	lvd.		Type: 6-M Survey Meter
City:	Dayton	State:	OH Zip: 45424	Model: Monitor 4
Contact:	Radiation Safety		Phone: (513) 233	3-9935 Serial a: 20189
DETECTORS				
	Make	Type	Model	Serial Number Voltage (V) Radionuclide Efficiency
1.		Int. 6-M		600
3.				
9.	101			

RSO, Inc. certifies that on 2/8/90 the above described instrument was calibrated in a known radiation field using a 137Cs (662 keV) beam calibrator (J.L. Shepard Model 28-6A, S/N 10056). The results are tabulated below. Calibration is traceable to the National Institute of Standards and Technology.

Scale or Range	Calculated (mR/h)	Observed (mR/h)	C.F.
x 1	0.100	0.100 *	1.00
	0.400	0.380 *	1.05
x 10	1.000	1.000	1.00
	4.000	3.800	1.05
z 100	10.000	10.000	1.00
	40.000	37.000	1.08



FRONT

CALIBRATION GEOME ??Y

PERPENDICULAR X

ORIENTATION TO RADIATION BEAM

PARALLEL BACK PROBE WINDOW

OPEN X CLOSED FIXED

INSTRUMENT CHECKS

CHECK SOURCE: NA : BATTERY CHECK: BATT

ENVIRONMENTAL CONDITIONS

Temperature: 25 °C Pressure: 760 mmHg Humidity: 50 %

This instrument should be returned for recalibration no later than 8/9/90

Average correction factor:

Calibrated By:

COMMENTS

"Electronically pulsed.

Reviewed By: 505 Date: 2/8/90

Joshua K. Mork

Maryland License MD-33-021-01

EXHIBIT 4(b)

Response to Notice of Violations LaserMike, Inc. April 4, 1990

Violation Number -- 4(b)

Type of Violation

Licensee did not have a Radiation Safety Officer between June 30, 1989 and August 8, 1989.

Corrective Steps Taken

The R.S.O. to be, initiated a request to amend our current license to change Radiation Safety Officer on July 20, 1989. The intervening 20 days were spent finding out what was involved in making these amendments and proceeding with the change. Compliance was achieved on August 8, 1989.

Steps Taken to Avoid Future Violations

This type of problem will not occur again as management now has an awareness of this issue. Our "Probe Checklist" requires Safety Radiation Officer signature prior to shipment. Absent the RSO, there will be no shipment. This monitorization and documentation requirement should ensure compliance.

Date of Full Compliance August 8, 1989. EXHIBIT 4(c)

Response to Notice of Violations LaserNike, Inc. Apri) 4, 1990

Wiolation Number -- 4(c)

Type of Violation Licensee failed to ship a device containing radioactive material in an authorized Type A package.

Corrective Steps Taken
LaserMike has obtained a supply of authorized "Type A" packaging as used by NDC systems to meet our short term needs.

Steps Taken to Avoid Future Violations
We have on order a new tri-wall carton which should easily meet
these requirements and expect to receive it and have our testing
completed by April 30, 1990. We will continue to use "Type A"
materials supplied by NDC until we receive qualifying packaging
from our vendor.

Date of Full Compliance March 30, 1990

EXHIBIT 4(d)

Response to Notice of Violations LaserMike, Inc. April 4, 1990

Violation Number -- 4(d)

Type of Violation

LaserMike failed to evaluate the package shipped July 7, 1989 for contamination levels.

Corrective Steps Taken

No corrective action was possible for the material shipped on July 7, 1989.

Steps Taken to Avoid Future Violations

LaserMike's test department will be responsible to ensure by test that the external radiation and contamination levels are within allowable limits of 2.2 dpm/cm(squared).

Our "Probe Checklist" will have this procedure as a "check item" which will be challenged by the Safety Radiation Officer upon his review. This monitorization and documentation requirement should ensure compliance with DOT 49.CFR 173.475(i).

Date of Full Compliance March 30, 1990

Response to Notice of Violations LaserMike, Inc. April 4, 1990

Violation Number -- 5

Type of Violation Licensee failed to notify the Materials Licensing Branch, Division of Fuel Cycle and Material Safety of transfer of the device on July 7, 1989.

Corrective Steps Taken
Notification was performed on February 2, 1990. See copy of letter attached.

Steps Taken to Avoid Future Violations
LaserMike's has a procedure to complete the required notification prior to shipment of the radioactive material. Our "Probe Checklist" will have this procedure &s a "check item" which will be challenged by the Safety Radiation Officer upon his review. This monitorization and documentation requirement should ensure compliance with Licensee Condition Number 17.

Date of Full Compliance February 2, 1990