Region I
NMSS Licensee Event Report

Licensee	AGILENT TECHNOLOGIES
Event Description	THEFT / LOSS OF Generally Licensed Item

License #	07-28762-02G	Docket #	03002988	MLER-RI	2004- 053
Event Date	JULY 04	Report Date			

1. REPORTING REQUIREMENT

X	10 CFR 20.2201 Theft or Loss		10 CFR 35.33 Misadministration
	10 CFR 20.2203 30 Day Report		License Condition
	10 CFR 30.50 Report		
XXX	Other 10 CFR 31.5		

2. REGION I RESPONSE

	Immediate Site Inspection	Inspector/Date	
	Special Inspection	Inspector/Date	
	Telephone Inquiry	Inspector/Date	
	Preliminary Report		Daily Report
XX	Information Entered in RI Log	X	Review at next inspection
	Report referred to:		

3. REPORT EVALUATION

X	Description of Event	X	Corrective Actions
X	Levels of RAM Involved		Calculations Adequate
	Cause of Event		Additional Information Requested from Licensee

4. SPECIAL INSTRUCTIONS OR COMMENTS

Public	X	Non-Public	

	Initials/Date		Initials/Date
Completed by:	E. Ullrich	Date	9/13/04
Reviewed by:	[signature]	Date	9.16.2004

Location of File: G:\LAS\LER FORM REV A.wpd

Agilent Technologies
2850 Centerville Road
Wilmington, DE 19808

RECEIVED
REGION 1

'04 JUL 30 P1 :54

Director
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road,
King of Prussia, PA 19406

Re: Notice of loss of licensed material, License 07-28762-02G

July 27, 2003

Dear Sir or Madam,

Per 10 CFR 20.2201, "Reports of theft or loss of licensed material", this letter is intended to notify your office of the loss of an Agilent Technologies, Inc., electron capture detector (ECD) between this manufacturing facility and a customer location in India. The device information is listed as:

Description of licensed material:

15 millicurie Nickel 63, general licensed, sealed source. Device was a model G1533A and is described in Registry of Radioactive Sealed Sources and Devices Safety Evaluation of Device No: NR-0348-D-111-B. The device serial number was YA755.

Description of the circumstances:

The device was transferred from this facility to our distribution center in Germany on or about March 18'th of this year. It was then transferred to the customer in India on or about April 13'th. This office was made aware of the incident on May 28'th. The device was apparently lost in transit between the United States and the customer location in India. The box containing the device arrived at the customer location but the ECD was not included with the other parts in the shipment.

Disposition or probable disposition of licensed material:

Unknown.

Exposures of individuals to radiation:

The final manufacturing wipe test revealed a level of removable activity below background. Due to the design of the device, as defined in our sealed source registry NR-0348-D-111-B, we do not believe it conceivable that the general public will be exposed to the internal source. In addition, we do we do not believe the risk of exposure is of any real concern as Ni-63 is a low energy beta/gamma emitter, and the risk analysis for our devices is well known (see below note of an independent analysis). The report cited indicates that an exposure can occur in excess of established limits, but in order to do so, the electroplated source would have to be deliberately scraped out of the housing, ground into a fine powder, the skin (including the lens of the eye) would have to be cut opened and the ground source inserted under the skin. Similar steps would be necessary to obtain either an airborne or ingestion exposure.

Note: An independent service's risk analysis for the ECD open source is available at the Agilent Technologies, Inc., Quality Department's web page (http://lsca-quality.business.agilent.com/cas/index.asp). Click on the option ECD Regulations and Status, then, click on Source Risk, which is in PDF format.

Actions taken to recover material:

- Internally:

  An audit was performed of the site activities associated with ECD manufacturing and shipments.

  Employees associated with the transfer were interviewed to determine familiarity with and conformance with written procedures. Determined that both were adequate. The manufacturing operation, as well as the site, is ISO 9001, quality systems, certified; meaning that the entire manufacturing process is thoroughly documented and employee training against those procedures is regularly audited.

  Determined that there are multiple employees involved with each ECD transfer. Manufacturing operators place completed parts into designated staging areas. The area clerk physically removes the part from the staging area when the order is completed. The clerk verifies the ECD serial number affixed to the device against the customer order and shipping label affixed to the shipping container. The device is transferred inside the container to the shipping department where it is weighed and checked against a standard weight for such parts.

- Externally:

  The distribution center in Germany was notified and their process does not include opening packages.

  The carriers were notified of the incident but no response has been received as of the date of this letter.

The customer was requested to return original package but we have not received it as of the date of this letter and do not expect it.

Improvement plans:

Evaluate the feasibility of affixing a packing tape instructing recipient to refuse shipment if seal is broken.

Please contact me at 302-683-7103 if you have any questions.

Sincerely,

David S. Bennett
Radiation Safety Officer

c.c.
Keith Morgan
LFS/LSCA Environmental, Health, and Safety Manager