

2/10/00 SP04  
Event Rpt Dist  
cc: Perkins, OSP  
L Rakovan, ASPO

**Event Reporting Handbook**

**EVENT REPORT COVER PAGE**

**AGREEMENT STATE**

**EVENT REPORT ID NO.**  KY - 00 - 001   
(State\Yr.\No.)

**DATE:** February 8, 2000

**TO:** Paul Lohaus  
**Director**  
**Office of State Programs**

**SUBJECT:** Lost Source

**STATE:** Kentucky

00 FEB 14 PM 4:56  
OSP

**Signature and Title:**  *Vicki O. Yopp*

Supervisor, Radioactive Materials Program

Kentucky Radiation Health and Toxic Agents Branch

REC FILE CENTER COPY 93  
SP-E-9

EVENT REPORT

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 1 HOUR. THIS INFORMATION IS REQUESTED TO ASSESS MATERIALS EVENTS AND EVALUATE ACTIONS NECESSARY TO PREVENT THEIR RECURRENCE. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-8 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0178), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

LICENSEE Eastern Kentucky University		CITY AND STATE Richmond, KY		ORIGINAL ITEM NUMBER
TYPE OF LICENSE (i.e., Field Radiography, Private Practice Medical, etc.) Academic - Limited Scope		LICENSE NUMBER 203-032-83		THIS ITEM NUMBER
ABNORMAL OCCURRENCE	FOLLOW-UP REPORT	ISOTOPE	TYPE OF ISOTOPE	DATE OF EVENT
<input type="checkbox"/> YES	<input type="checkbox"/> YES	Ni-63	<input checked="" type="checkbox"/> AEA MATERIAL	August 1999
<input checked="" type="checkbox"/> NO	<input type="checkbox"/>		<input type="checkbox"/> ACCELERATOR PRODUCED	DATE OF THIS REPORT
			<input type="checkbox"/> NORM	February 8, 2000

AMOUNT OF RADIOACTIVE MATERIAL (If amount of material is below exempt quantity, do not complete this form)

<input type="checkbox"/> < 1 MILLICI	<input type="checkbox"/> 100 MILLICI - < 1 CI	<input type="checkbox"/> 10 CI - 100 CI	<input type="checkbox"/> UNKNOWN
<input checked="" type="checkbox"/> 1 MILLICI - < 100 MILLICI	<input type="checkbox"/> 1 CI - < 10 CI	<input type="checkbox"/> > 100 CI	

EVENTS INVOLVING OVEREXPOSURE

NUMBER OF OVEREXPOSURES	TYPE OF INDIVIDUAL	EVENT LOCATION	DOSE TO	DOSE	RAD	REM
			WHOLE BODY			
SOURCE OF RADIATION	EMPLOYEE	RESTRICTED AREA	LENS OF EYE			
<input type="checkbox"/> EXTERNAL	MINOR EMPLOYEE	UNRESTRICTED AREA	EXTREMITY			
<input type="checkbox"/> INTERNAL	EMBRYO/FETUS	CONTROLLED AREA	SKIN			
<input type="checkbox"/> BOTH	PUBLIC		ORGAN			

LEAKING SOURCE

LOST OR STOLEN MATERIAL

EVENT	EVENT LOCATION	PROBABLE DISPOSITION
<input checked="" type="checkbox"/> LOST	FIXED SITE	WELL LOGGING RECOVERED SOURCE
<input type="checkbox"/> FOUND	TEMPORARY JOB SITE	WELL LOGGING IRRETRIEVABLE SOURCE
<input type="checkbox"/> THEFT	LICENSED VEHICLE	OTHER (Specify)
<input type="checkbox"/> THEFT, WITH FORCE	COMMERCIAL CARRIER	COMMERCIAL WASTE
	<input checked="" type="checkbox"/> OTHER (Specify)	INCINERATOR
		<input checked="" type="checkbox"/> SCRAP METAL possibly

RELEASE OF MATERIALS

FORM	EVENT	LOCATION
<input type="checkbox"/> SOLID	SPILL	RESTRICTED AREA
<input type="checkbox"/> LIQUID	TRANSPORTATION	UNRESTRICTED AREA
<input type="checkbox"/> GAS	OTHER (Specify)	CONTROLLED AREA

EVENTS INVOLVING FACILITIES

<input type="checkbox"/> FIRE	SPILL	OTHER (Specify)
<input type="checkbox"/> DAMAGE TO DEVICE	> 24-HOUR DENIAL OF ACCESS	
<input type="checkbox"/> EXPLOSION	DAMAGE TO SAFETY EQUIPMENT	

EVENTS INVOLVING GAUGES		EVENTS INVOLVING RADIOGRAPHY	
TYPE	EVENT	LOCATION	EVENT
<input type="checkbox"/> GENERAL LICENSE	SHUTTER	FIXED	SOURCE DISCONNECT
<input type="checkbox"/> EXEMPT	MOISTURE/DENSITY GAUGE DAMAGE	TEMPORARY JOB SITE	SOURCE NOT RETURNED TO FULLY SHIELDED POSITION
<input type="checkbox"/> SPECIAL LICENSE	LOST/STOLEN		CABLE FAILURE
<input type="checkbox"/> FIXED	OTHER (Specify)		FAILURE TO FOLLOW PROCEDURES
<input type="checkbox"/> PORTABLE			

EVENT INVOLVING AN IRRADIATOR	MANUFACTURER	MODEL	SERIAL NUMBER
EVENTS INVOLVING TELETHERAPY			

ABSTRACT (Include the cause of the event(s) and licensee corrective action. May be continued on the reverse side)

See ATTACHED.

## Attachment

On December 17, 1999, Eastern Kentucky University reported to the Kentucky Radiation Control Program, the loss of two (2) nickel sources. The sources were reported to be 10 and 15 millicuries each as contained in a gas chromatograph (GC).

The circumstances of the loss are as follows. Prior to August, the device was removed from its place of use to a location where other surplus equipment was stored. This surplus equipment was sold in "lots" in late July or early August. The University was able to determine from records the individual to whom the "lot" believed to contain the GC was sold. A search was made of his property but the device was not found. The individual indicated he had probably sold the device to either an aluminum smelting company or a scrap metal dealer. The University believes the GC was smelted.

No exposures to individuals are believed to have occurred. The nickel-63, if smelted, would be incorporated into the aluminum.

Information on the GC is as follows:

Perkin-Elmer Model 2000/2100 gas chromatograph  
Ni-63 serial number 819, 15 millicuries  
Ni-63 serial number 703, 10 millicuries  
Electron capture detector model 6000204

The University has undertaken corrective steps to maintain better accountability of sources and equipment.