

RI - DNMS Licensee Event Report Disposition

Licensee:	Nucletron Corporation				
Event Description:	Fed Ex delivered source to a non-licensee				
License No:	19-28772-0	Docket No:	03032842	MLER-RI:	2010-011
Event Date:	5-28-2010	Report Date:	7-1-2010	HQ Ops Event #:	45967

1. REPORTING REQUIREMENT

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

<input type="checkbox"/> Immediate Site Inspection <input type="checkbox"/> Special Inspection <input checked="" type="checkbox"/> Telephone Inquiry <input type="checkbox"/> Preliminary Notification/Report <input checked="" type="checkbox"/> Information Entered in RI Log <input type="checkbox"/> Report Referred To:	<table style="width: 100%;"> <tr> <td style="width: 50%;">Inspector/Date</td> <td style="width: 50%;"></td> </tr> <tr> <td>Inspector/Date</td> <td></td> </tr> <tr> <td>Inspector/Date</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> 6/2014</td> <td>Daily Report</td> </tr> <tr> <td></td> <td>Review at Next Inspection</td> </tr> </table>	Inspector/Date		Inspector/Date		Inspector/Date		<input checked="" type="checkbox"/> 6/2014	Daily Report		Review at Next Inspection
Inspector/Date											
Inspector/Date											
Inspector/Date											
<input checked="" type="checkbox"/> 6/2014	Daily Report										
	Review at Next Inspection										

3. REPORT EVALUATION

<input checked="" type="checkbox"/> Description of Event <input checked="" type="checkbox"/> Levels of RAM Involved <input checked="" type="checkbox"/> Cause of Event	<input checked="" type="checkbox"/> Corrective Actions <input type="checkbox"/> Calculations Adequate <input type="checkbox"/> Additional Information Requested from Licensee
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4. MANAGEMENT DIRECTIVE 8.3 EVALUATION

<input type="checkbox"/> Release w/Exposure > Limits <input type="checkbox"/> Repeated Inadequate Control <input type="checkbox"/> Exposure 5x Limits <input type="checkbox"/> Potential Fatality If any of the above are involved: <input type="checkbox"/> Considered Need for IIT	<input type="checkbox"/> Deliberate Misuse w/Exposure > Limits <input type="checkbox"/> Pkgng Failure > 10 rads/hr or Contamination > 1000x Limits <input type="checkbox"/> Large# Indivs w/Exp > Limits or Medical Deterministic Effects <input type="checkbox"/> Unique Circumstances or Safeguards Concerns <input type="checkbox"/> Considered Need for AIT
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Decision/Made By/Date: _____

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

<input type="checkbox"/> Timeliness - Inspection Meets Requirements (5 days for overdose / 10 days for underdose) <input type="checkbox"/> Medical Consultant Used-Name of Consultant/Date of Report: _____ <input type="checkbox"/> Medical Consultant Determined Event Directly Contributed to Fatality <input type="checkbox"/> Device Failure with Possible Adverse Generic Implications <input type="checkbox"/> HQ or Contractor Support Required to Evaluate Consequences
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6. SPECIAL INSTRUCTIONS OR COMMENTS

Next Inspection Determine reason for slow response by Nucletron

<input type="checkbox"/> Non-Public <input checked="" type="checkbox"/> Public-SUNSI REVIEW COMPLETE	Inspector Signature: <u>K. Modes</u> Branch Chief Initials: <u>J.A. Joubert</u>	Date: <u>10-5-2010</u> Date: <u>10/6/10</u>
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Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
1	N	Y	100	Power Operation	100	Power Operation
2	N	Y	98	Power Operation	100	Power Operation

Event Text

LATE NOTIFICATION OF A SINGLE INADVERTENT SIREN ACTIVATION DURING THUNDERSTORM ACTIVITY

"At approximately 2115 CDT on May 30, 2010, a Pierce County dispatcher was notified of inadvertent siren activations, momentarily activating for approximately 30 minutes. The dispatcher also indicated there were lightning strikes in the area about the same time. The siren vendor was dispatched and the issue was tracked down to a single siren; no physical damage was observed, however, the siren was declared out of service by the siren vendor."

The licensee notified the NRC Resident Inspector.

Other Nuclear Material	Event Number: 45967
Rep Org: NUCLETRON CORPORATION Licensee: NUCLETRON CORPORATION Region: 1 City: MARTINSBURG State: WV County: License #: 1928772-01 Agreement: N Docket: NRC Notified By: DEBRA BENSEN HQ OPS Officer: VINCE KLCO	Notification Date: 06/01/2010 Notification Time: 14:30 [ET] Event Date: 05/28/2010 Event Time: 15:30 [EDT] Last Update Date: 06/01/2010
Emergency Class: NON EMERGENCY 10 CFR Section: 20.2201(a)(1)(ii) - LOST/STOLEN LNM>10X	Person (Organization): GLENN DENTEL (R1DO) CHRISTEPHER MCKENNEY (FSME) LANCE ENGLISH (ILTA)

This material event contains a "Category 3" level of radioactive material.

Event Text

POTENTIALLY LOST SOURCE

On the afternoon of May 28, 2010, Nucletron Corporation (Columbia, Maryland) received a call from 21st Oncology Katin Radiation (Martinsburg, West Virginia) who received a phone call from QSA Global (Burlington, Massachusetts) saying they received a call from a GM plant located in the Martinsburg, West Virginia general area. The GM plant had mistakenly received a properly shielded radiation source from a common carrier. Because of an exception in the shipping paperwork, the shielded source was supposed to be shipped back to Katin Radiation.

The device is a Microselectron HDR Brachytherapy Afterloader: serial number #31836. The source is IR-192, 4.69 Ci, serial number D36C-1703.

The common carrier is investigating the driver's routing and logistics during the day of the event in order to track the source.

* * * UPDATE FROM DEBRA BENSEN TO VINCE KLCO ON 6/1/10 AT 1759 EDT * * *

Notified by the licensee that the source was located at a GM plant in the Martinsburg, West Virginia area. The common carrier picked up the source and delivered it to Katin Radiation at 1632 EDT. The source packaging was inspected and showed no evidence of damage or tampering.

Notified the R1DO (Dentel), FSME (Camper), and ILTAB (English).

THIS MATERIAL EVENT CONTAINS A "CATEGORY 3" LEVEL OF RADIOACTIVE MATERIAL

Category 3 sources, if not safely managed or securely protected, could cause permanent injury to a person who handled them, or were otherwise in contact with them, for some hours. It could possibly - although it is unlikely - be fatal to be close to this amount of unshielded radioactive material for a period of days to weeks. These sources are typically used in practices such as fixed industrial gauges involving high activity sources (for example: level gauges, dredger gauges, conveyor gauges and spinning pipe gauges) and well logging. For additional information go to http://www-pub.iaea.org/MTCD/publications/PDF/Pub1227_web.pdf

Although IAEA categorization of this event is typically based on device type, the staff has been made aware of the actual activity of the source, and after calculation determines that it is a Category 3 event.

Note: the value assigned by device type "Category 2" is different than the calculated value "Category 3"

101:

Power Reactor	Event Number: 45968
Facility: PALO VERDE Region: 4 State: AZ Unit: [1] [2] [3] RX Type: [1] CE,[2] CE,[3] CE NRC Notified By: DELBERT ELKINTON HQ OPS Officer: HOWIE CROUCH	Notification Date: 06/01/2010 Notification Time: 15:36 [ET] Event Date: 06/01/2010 Event Time: 07:15 [MST] Last Update Date: 06/01/2010
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(3)(xiii) - LOSS COMM/ASMT/RESPONSE	Person (Organization): GREG WERNER (R4DO)

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
1	N	Y	100	Power Operation	100	Power Operation
2	N	Y	100	Power Operation	100	Power Operation
3	N	Y	100	Power Operation	100	Power Operation

Event Text

PUBLIC WARNING SYSTEM SIREN OUT OF SERVICE

"The following event description is based on information currently available. If through subsequent reviews of this event, additional information is identified that is pertinent to this event or alters the information being provided at this time, a follow-up notification will be made via the ENS or under the reporting requirements of 10CFR50.73.

"On June 01, 2010, at approximately 0715 Mountain Standard Time (MST), the Palo Verde Emergency Planning Department discovered that public warning system siren No. 17 was not responding, and therefore, is out of service. The loss of siren No. 17 could potentially impact a population of approximately 1196 people in the 5-mile Emergency Planning Zone (EPZ).

"Since the loss of siren No. 17 could impair Arizona Public Service Company's ability to inform greater than 5% of the population within the EPZ, this notification is being made in accordance with 10 CFR 10.72(b)(3)(xiii). If an event occurs while siren No. 17 is out of service, the Palo Verde Emergency Plan has a contingency for dispatching Maricopa County Sheriff's Office (MCSO) vehicles with loud speakers to alert persons within the affected area. The MCSO is



Nucletron Corporation
8671 Robert Fulton Drive
Columbia, MD 21046
Tel: 410-312-4100
Fax: 410-312-4198
www.nucletron.com

Ray Manley
Radiological Health Program
Maryland Department of the Environment
1800 Washington Boulevard, Suite 750
Baltimore, MD 21230-1720

Our reference:
Follow-up Report 2010-006
NRC Event Report 45967

Your reference:

Date:
July 1, 2010

Dear Ray Manley:

As a follow up to the verbal notification on June 1, 2010, please find enclosed the Follow-up Report for the "lost" HDR type A source shipping container. A notification for this event was posted on June 2, 2010 on the NRC Event Report website – event 45967. This incident did not result in release of radioactive material or unplanned exposure of personnel or the public. If you have any questions concerning the enclosed, please contact me at 443-545-2220 or via email debra.bensen@us.nucletron.com.

Sincerely,

Debra Bensen
RSO

Enclosures: As Stated

cc: Kathy Modes, Senior Health Physicist
USNRC - Region I - DNMS

2010 JUL -2 AM 10:40

RECEIVED
REGION I



Follow-Up Report



2010_006

Page 1 of 2

1. Data

Customer:	Nucletron for 21st Century Oncology Katin Radiation 2000 Foundation Way Suite 1100 Martinsburg, WV 25401 Contact: Dr. Ayoola Akinradewo Phone: 304-433-2388
NRC Event Report	45967
Device description:	4.69 Ci Ir-192 Sealed Source SN D36C-1703 Exchanged from Nucletron mHDR 105.999 SN31836
Date of Event:	May 28, 2010
Date of Notification	June 1, 2010
Date of Follow-Up Report	July 1, 2010
Reporter:	Debra Bensen Nucletron Corporation 8671 Robert Fulton Drive Columbia, MD 21046

2. Description of Incident

Details of the incident are outlined below:

May 27, 2010

1. Thursday May 27, Federal Express picked up the HDR Type A package containing a 4.69 Ci sealed source of Ir-192 from 21 Century Oncology/Katin Radiation in Martinsburg, WV and was to ship the package to QSA-Global, Inc. in Burlington, MA.

May 28, 2010

2. Sometime Friday, May 28, the HDR Type A package was delivered to a GM Plant in Martinsburg. (We were told a dealership but discovered later it was a plant). The GM plant then called the RSO for QSA Global, Charlie Ellars, to inform him that the package was delivered to them. Charlie did not get the name or phone number of the contact person at the GM plant.
3. QSA began tracking down the package. They contacted Katin Radiation and Nucletron's Source Logistics Coordinator, Cyndie Prager.
4. Cyndie searched the Fed Ex tracking number and was able to determine that the source package made it to Hagerstown where it was flagged with an exception for insufficient paperwork and was to return to Katin Radiation in Martinsburg. She was unable to determine from the tracking number where it was after that point. Cyndie sent an email to QSA with the tracking information to assist them.
5. Late Friday afternoon, Nucletron's RSO was informed the source package was accidentally delivered to a GM dealership and that QSA was working with Federal Express to locate it.



June 1, 2010

6. Tuesday, after returning from the holiday weekend, Nucletron's RSO inquired about the source and was told there was no word on the missing shipment from Martinsburg WV. The Federal Express Dangerous Good Hotline was immediately contacted and the issue was discussed at length with a Barbara. She left a detailed message for Dr. Roy Parker, the Federal Express Safety Officer. In order to locate where the source was delivered, she began an investigation of the travel and delivery logistics of the FedEx driver responsible for delivering the source to the GM plant.
7. Nucletron's RSOI contacted Katin Radiation to get a copy of the shipping paperwork in order to determine what the problem might have been, but could not determine any issue (Attachment A). Additionally, the shipping addresses was verified to insure that neither Nucletron nor QSA were responsible for the FedEx driver returning the source to the incorrect address.
8. Based on 10 CFR 39.77 and COMAR 26.12.01.01 Sec. D.1201, Nucletron's ROS reported the "lost" source to the NRC (Attachment B) and Maryland Department of the Environment.
9. In the meantime, Jim Underwood with QSA was able to get in contact with a manager at FedEx in Hagerstown, MD, Mickey, who located the source at the GM plant at 608 Caperton Blvd. Martinsburg, WV 25401. Mickey arranged to have a courier retrieve the source package this afternoon and return it to Katin Radiation.
10. At 4:15 PM this afternoon, the FedEx courier retrieved the source package from the GM plant and at 4:32 PM delivered it back to Katin Radiation to Dr. Ayoola Akinradewo (Dr. Ayo). Nucletron's RSO contacted Dr. Ayo and had him inspect the package and measure the radiation levels. The tamper evident seals were intact and the radiation levels were adequate to insure the source was still inside the container.
11. Nucletron dispatched a field service engineer to go onsite to perform an additional inspection of the HDR Type A package and prepare new shipping paperwork. The source was intact in the inner shielded locked container and there was no release of radioactive material or unplanned exposure of personnel or the public. The source package was received at QSA Global on June, 8, 2010 (Attachment C).

3. Investigation and Analysis

The cause of the source being delivered to the wrong address is two-fold. Federal Express noted an exception in the shipping paperwork: the TI and activity were hand written. However, according to IATA exception FX-12 (Attachment D) this is permitted and is acknowledged by Federal Express (Attachment E). Secondly, the FedEx driver did not deliver the package to the address as written on the shipping documents.

4. Conclusion and Recommendations

There have been several other incidents involving the HDR Type A package being returned to the facility due to the same exception in paperwork. Fortunately, all other packages were returned to the correct address. Understanding IATA regulations and exceptions by all employees involved in shipping radioactive materials is highly recommended. FedEx has been apprised of the ongoing problem and is working on their end to educate their personnel on these exceptions to shipping declarations.

Attachment A

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper Nuceltron Corporation for 21ST CENTURY ONCOLOGY KATIN RADIATION 2000 FOUNDATION WAY SUITE 1100 MARTINSBURG WV 25401	Air Waybill No. 30452405 0873 Page 1 of 1 Pages Shipper's Reference Number (optional) Source S/N: 1723 Container#: 177405 MHDR S/N: 7836
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Consignee
 Dr. G. G. G. 900 815-1383
 USA Global Inc.
 46 North Avenue
 Burlington MA 01803

Two completed and signed copies of this Declaration must be handed to the operator

TRANSPORT DETAILS

This shipment is within the limitations prescribed for: (delete non-applicable)

PASSENGER AND CARGO AIRCRAFT CARGO AIRCRAFT ONLY	Airport of Departure
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Airport of Destination:

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.

Shipment type: (delete non-applicable)

NON-RADIOACTIVE RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS
 UN Number or Identification Number, proper shipping name, Class or Division (subsidiary risk), packing group (if required), and all other required information.

UN3032-Radioactive Material, Type A Package, Special form, Class 7
 Ir-192, Type A Package, 1.81 GBq
 II, net wt. 1.1, 0.3 Dimensions: 33x33x41 cm
 Special form Certificate # D/0070/5-96 Attached

Additional Handling Information "ICAO/IATA Regulations Used" Shipment is for Medical Purposes

300-424-0300

24 hr. Emergency Contact Tel. No.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.

Name/Title of Signatory
 Place and Date
 Signature (see warning above)

Attachment B

Other Nuclear Material	Event Number: 45967
Rep Org: NUCLETRON CORPORATION Licensee: NUCLETRON CORPORATION Region: 1 City: MARTINSBURG State: WV County: License #: 1928772-01 Agreement: N Docket: NRC Notified By: DEBRA BENSEN HQ OPS Officer: VINCE KLCO	Notification Date: 06/01/2010 Notification Time: 14:30 [ET] Event Date: 05/28/2010 Event Time: 15:30 [EDT] Last Update Date: 06/01/2010
Emergency Class: NON EMERGENCY 10 CFR Section: 20.2201(a)(1)(ii) - LOST/STOLEN LNM>10X	Person (Organization): GLENN DENTEL (R1DO) CHRISTEPHER MCKENNEY (FSME) LANCE ENGLISH (ILTA)

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The device is a Microselectron HDR Brachytherapy Afterloader: serial number #31836. The source is IR-192, 4.69 Ci, serial number D36C-1703.

The common carrier is investigating the driver's routing and logistics during the day of the event in order to track the source.

* * * UPDATE FROM DEBRA BENSEN TO VINCE KLCO ON 6/1/10 AT 1759 EDT * * *

Notified by the licensee that the source was located at a GM plant in the Martinsburg, West Virginia area. The common carrier picked up the source and delivered it to Katin Radiation at 1632 EDT. The source packaging was inspected and showed no evidence of damage or tampering.

Notified the R1DO (Dentel), FSME (Camper), and ILTAB (English).

THIS MATERIAL EVENT CONTAINS A "CATEGORY 3" LEVEL OF RADIOACTIVE MATERIAL

Category 3 sources, if not safely managed or securely protected, could cause permanent injury to a person who handled them, or were otherwise in contact with them, for some hours. It could possibly - although it is unlikely - be fatal to be close to this amount of unshielded radioactive material for a period of days to weeks. These sources are typically used in practices such as fixed industrial gauges involving high activity sources (for example: level gauges, dredger gauges, conveyor gauges and spinning pipe gauges) and well logging. For additional information go to http://www-pub.iaea.org/MTCD/publications/PDF/Pub1227_web.pdf

Although IAEA categorization of this event is typically based on device type, the staff has been made aware of the actual activity of the source, and after calculation determines that it is a Category 3 event.

Note: the value assigned by device type "Category 2" is different than the calculated value "Category 3"

Attachment C



QSA Global, Inc.

40 North Avenue
Burlington, MA 01803
(781) 272-2000
(800) 815-1383

Formerly known as AEA Technology QSA, Inc.

Warehouse: 1 BURLINGTON
Receipt No: 114473
RMA No:
Date Received: 6/08/10

Email sent to:
cyndie.prager@us.nucletron.com

Receiving Report

Page 1

Mail to:
21ST CENTURY ONCOLOGY
KATIN RADIATION
2000 FOUNDATION WAY SUITE 11
MARTINSBURG WV 25401

Received from:
21ST CENTURY ONCOLOGY
KATIN RADIATION
2000 FOUNDATION WAY SUITE 1100
MARTINSBURG WV 25401

Carrier: Federal Express Corporation

Freight Bill #: 812306577588

Model: SC-NUCADIC5 NUCLETRON SHIP CON MODEL ADIC5 Serial: 1774C5
CUSTOMER PROPERTY Isotope: IRIDIUM-192

Sales Order: 1 CO
Customer: 1 01627801 Over Pack S/N:

<u>Model #</u>	<u>Serial#</u>	<u>Activity</u>
105002	D36C-1703	4.900 Curies

Surface Radiation: 8.0 mr/hr Transport Index: .2 mr/hr
Removable Contamination Level is <.001 UCI

Comments
MISSING SOURCE FROM MARTINSBURG, WV

This form is to acknowledge that the material listed above was received by QSA GLOBAL, INC. Please save this for your files.

Jim Underwood
RADIOLOGICAL TECHNICIAN

Attachment D

UN Number — Description

UN 2315 — Polychlorinated biphenyls, liquid [907]

UN 3077 — Environmentally hazardous substances, solid, n.o.s. [911, Y911]

UN 3082 — Environmentally hazardous substances, liquid, n.o.s. [914, Y914]

UN 3432 — Polychlorinated biphenyls, solid [911].

FX-07 Not used.

FX-08 Dry Shippers/Dry Dewars meeting the definition of the **Note** in Packing Instruction 202 must have the outer container marked both "Dry Dewar" or "Dry Shipper" and "Not Restricted" or "Non-Hazardous."

FX-09 Division 6.2, items classed as Risk Group 4 by the World Health Organization (WHO) will not be accepted for carriage.

FX-10 Lithium metal batteries, (primary non-rechargeable) UN 3090 which are shipped either fully regulated or in accordance with Section II of Packing Instruction 968 require pre-approval. See www.fedex.com/us; keyword lithium batteries (search field).

FX-11 Dangerous goods packages that cannot accommodate all of the required Federal Express and regulatory documentation as well as all required regulatory markings and labeling on the top or sides of the outer package, will not be accepted for carriage. Any required documentation, marking and labeling will not be permitted on the bottom of the package. FedEx branded packaging including brown boxes may not be used to ship dangerous goods or dry ice. Exceptions: UN 3373, Biological Substance Category B may be shipped in the FedEx UN 3373 Pak. FedEx Express white and brown boxes and tubes may be used for FedEx Express Section II lithium battery shipments.

FX-12 Handwritten Shipper's Declarations will not be accepted. The following fields on the Shipper's Declaration must be typed or computer generated:

UN or ID number including the prefix, Proper shipping name, Hazard class or division, Subsidiary risk or division(s), Packing Group, Packaging Type, Packing Instruction, Authorization, Emergency telephone number.

For radioactive shipments, in addition to the items listed above the following must also be typed or computer generated.

Radionuclide, Special Form or Physical and Chemical Form All other entries may be handwritten.

Handwritten alterations/amendments to an entry required to be typed per FX-12 are acceptable if each alteration/amendment is legible and signed with the same signature used to sign the Shipper's Declaration.

FX-13 FedEx Express will only accept Oxygen, compressed (UN 1072) when packed in an ATA Specification 300 Category I outer packaging. Packaging must be marked in accordance with the marking criteria of Air Transportation Association (ATA) specification No. 300. In addition, FedEx Express will require the outer package to have the additional tested specification mark of DOT31FP (see **Packing Instruction 200 and USG-15(d)**).

FedEx Express IATA Variation FX-12

Shaded areas must be computer generated or typewritten

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

(Provide at least three copies to FedEx Express.)

Shipper Consignee	Air Waybill No. Page of Pages Shipper's Reference Number <i>(optional)</i> For optional use for Company logo name or address		
Two completed and signed copies of this Declaration must be handed to the operator			
TRANSPORT DETAILS This shipment is within the limitations prescribed for: <i>(delete non applicable)</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">PASSENGER AND CARGO AIRCRAFT</td> <td style="width: 50%; text-align: center;">CARGO AIRCRAFT ONLY</td> </tr> </table> Airport of Departure Airport of Destination:	PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT ONLY	WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. Shipment type: <i>(delete non-applicable)</i> <input type="checkbox"/> NON-RADIOACTIVE <input type="checkbox"/> RADIOACTIVE
PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT ONLY		

NATURE AND QUANTITY OF DANGEROUS GOODS

Dangerous Goods Identification				Quantity and type of packaging	Packing Inst.	Authorization
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Pack-ing Group			
<i>This shaded area must be computer generated or typewritten except for the:</i>						
Non-radioactive shipment entries which may be handwritten including: RC <i>(Technical name)</i>				Quantity <i>(i.e. number of packages, net quantity or Gross weight, unit of measure and Q-value)</i>		
Radioactive Material shipment entries which may also be handwritten including:				Activity		Category <i>(i.e. I-White, II-Yellow, III-Yellow)</i> TI Dimensions
Additional Handling Information Emergency Telephone Number						

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable International and National Governmental Regulations. I declare that all of the applicable air transport requirements have been met.

Name/Title of Signatory

 Place and Date

 Signature
(see warning above)

NOTE:

- The "I declare that all of the applicable air transport requirements have been met." statement may be handwritten.
- Handwritten alterations/amendments are acceptable if each alteration is legible and signed with the same signature used to sign the Shipper's Declaration. [IATA 8.1.2.6]
- FedEx Express Automation customers using computer generated Shipper's Declarations are authorized to handwrite all fields on the form.

Attachment E



Dear Valued FedEx® Express Dangerous Goods Customer,

I wanted to alert you to a policy change concerning the Shipper's Declaration for Dangerous Goods. Effective June 1, 2001, FedEx Express will only accept Shipper's Declarations that are in typed or computer-generated formats. Handwritten declarations will no longer be accepted.* FedEx Express requires that each dangerous goods shipment be accompanied by a minimum of two copies of a properly executed Shipper's Declaration, when required in accordance with regulations.

Dangerous Goods present a special shipping challenge. At FedEx Express, we want to help you respond to that challenge with services designed to move your sensitive materials simply and safely.

For more information regarding FedEx Dangerous Goods regulations and requirements, call 1.800.Go.FedEx® 800.463.3339 and press *81* to be connected to the Dangerous Goods Hotline.

Thank you for shipping with FedEx.

Sincerely,

FedEx

* FX-12 of the International Air Transport Association (IATA) regulations:

Effective 1 June 2001 FedEx Express will only accept Shipper's Declarations that are typewritten or computer generated. Handwritten forms will no longer be accepted.

Exception: Non-radioactive shipments may have the name and address of the shipper and consignee, air waybill, airport of departure/destination, RQ, Technical name, quantity, name/title, signature and place/date entered by hand on the declaration. RAM shipments may also have entered by hand the activity category (W-I, Y-II, or III), TI and dimensions.