



June 6, 2005

Mr. John D Kinneman
United States Nuclear Regulatory Commission
Region I – Division of Nuclear Materials Safety
475 Allendale Road
King of Prussia, PA 19406-1415

Re: Final Decommissioning Report for License #37-30804-02 03036239

Dear Mr. Kinneman,

Please find the attached USNRC Form #314 (Attachment I) and enclosed documentation to terminate license #37-30804-02 and release all areas from restricted-access classification.

As demonstrated in this report, all radioactive sources have been accounted for and safely removed as well as the successful completion of all surveys. Therefore, proving there is no residual radioactive material remaining within the site.

As outlined in the decommissioning plan, a USNRC licensed vendor, MDS Nordion, verified the number of sources and removed them from the 4000 AM Drive facility. The inventory was verified through the use of two separate documents, the GRAY*STAR, Inc. loading pattern and Reviss inventory documents. (refer to Attachment II) The shipping of all radioactive material from Quakertown, PA to Ottawa, Canada has also been documented on the enclosed Bill of Ladings.

After the removal of all sources, MDS Nordion successfully inspected the following items: (refer to Attachment III, MDS Nordion Decommissioning Report & Forms)

- Pool Water
- Pool Surface
- DI Resin
- All Source Holders
- All Plenum Tubes
- Source Handling Tools
- Transport Containers

CFC LOGISTICS, INC

4000 AM Drive, Quakertown, Pennsylvania 18951 (T) 215.529.9522 (F) 215.529.9512
www.cfclogistics.com

137121
NMSS/RGNI MATERIALS-002

A second vendor, RSO Inc., was used to verify the absence of radioactive material within the following filters: (refer to Attachment IV, RSO, Inc. Report of Sample Analysis)

- Three Pool Water Filters
- Two Plenum Air Filters

Once all equipment and water scan data was documented, the pool water was removed to gain access to the pool floor. A survey was performed around the top rim and bottom surface. This scan found no detectable radiation readings above normal background levels. (refer to Attachment V)

All source handling and support equipment have been accounted for and will be returned to the original manufacturer, CHL Systems, after final approval for their release has been granted by the USNRC.

After USNRC approves the termination of the CFC Logistics license, please return the financial assurance certificates for decommissioning to Mr. Jim Wood.

Sincerely,

A handwritten signature in black ink, appearing to read "Luke Trauger", with a long horizontal flourish extending to the right.

Luke Trauger
Operations Manager / RSO

CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS

CFC Logistics
4000 AM Drive
Quakertown, PA 18951

LICENSE NUMBER

37-30804-02

DOCKET NUMBER

030-36239

LICENSE EXPIRATION DATE

August 31, 2013

- This license has expired. **A. LICENSE STATUS (Check the appropriate box)**
 This license has not yet expired; please terminate it.

B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

1. No radioactive materials have ever been procured or possessed by the licensee under this license.
2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
 - a. Transfer of radioactive materials to the licensee listed below:
MDS Nordion, Ottawa, Canada
 - b. Disposal of radioactive materials:
 1. Directly by the licensee:
 2. By licensed disposal site:
 3. By waste contractor:
 - c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

C. SURVEYS PERFORMED AND REPORTED

1. A radiation survey was conducted by the licensee. The survey confirms:
 - a. the absence of licensed radioactive materials
 - b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
2. A copy of the radiation survey results:
 - a. is attached; or b. is not attached (Provide explanation); or c. was forwarded to NRC on: _____ Date _____
3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
 - a. The results of the latest leak test are attached; and/or
 - b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME Jim Wood TITLE President TELEPHONE (Include Area Code) 215-368-2500 E-MAIL ADDRESS JWOOD@HGM.COM
 Mail all future correspondence regarding this license to: Jim Wood X8331

C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE

Luke Trauger RSO

SIGNATURE

[Signature]

DATE

6/6/05

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

Cobalt-60 Loading Pattern For Genesis Irradiator(tm)

Total Activity: 938,300 curies

Pattern #3

2nd. Loading: Recommended by GRAY*STAR, Inc.

Decay Date: November 1, 2004

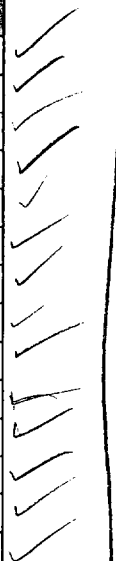
Total Number of Pencils: 82

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
A (top):																	
Source Number	15863EE	15563EE	15570EE			15865EE	17023EE	17071EE	17041EE	16935EE	17043EE	17115EE	17014EE				
Activity (curies)	9,600	10,200	10,300			10,700	11,700	11,800	11,900	11,900	11,800	11,700	11,700				
Source Number	17118EE	17022EE	17089EE				17121EE	17120EE			17113EE	16963EE					
Activity (curies)	12,700	12,300	12,100				11,900	11,800			11,800	11,900					
Source Number	15582EE	15566EE													15576EE	15694EE	
Activity (curies)	11,000	10,300													10,500	10,700	
Source Number	17066EE	16942EE													16939EE	17062EE	
Activity (curies)	11,900	12,200													12,000	12,000	
Holder Activity	45,200	45,000	22,400	0	10,700	23,600	23,600	11,900	11,900	23,600	23,600	11,700	0	22,400	45,000	45,200	
B (middle):																	
Source Number	16948EE	15564EE	15666EE	17114EE	17126EE		17071EE	15858EE	15693EE	17086EE		17005EE	17125EE	15572EE	15983EE	17108EE	
Activity (curies)	12,000	10,300	10,400	11,800	11,700		12,000	10,600	10,600	12,000		11,700	11,800	10,400	10,400	12,000	
Source Number		17069EE	17025EE											17103EE	17124EE		
Activity (curies)		11,900	12,000											12,000	11,800		
Holder Activity	12,000	22,200	22,400	11,800	11,700	0	12,000	10,600	10,600	12,000	0	11,700	11,800	22,400	22,200	12,000	
C (bottom):																	
Source Number	15578EE	15859EE	15689EE			17083EE	17010EE	17061EE	17112EE	17101EE	17046EE	15987EE	17067EE		17056EE	15864EE	15861EE
Activity (curies)	10,100	10,200	10,300			11,900	11,700	11,800	11,900	11,900	11,800	11,500	11,900		11,900	10,200	10,100
Source Number	17075EE	17072EE	17100EE				17123EE	17070EE			17013EE	17063EE			15571EE	17076EE	17105EE
Activity (curies)	12,400	12,300	12,100				11,900	11,800			11,800	12,100			10,400	12,300	12,400
Source Number	15696EE	15680EE													15575EE	15687EE	
Activity (curies)	10,700	10,500													10,500	10,700	
Source Number	17047EE	17107EE													17106EE	17065EE	
Activity (curies)	12,000	12,000													12,000	12,000	
Holder Activity	45,200	45,000	22,400	0	11,900	23,600	23,600	11,900	11,900	23,600	23,600	11,900	0	22,300	45,000	45,200	
Total Activity (per tube)	102,400	112,200	67,200	11,800	34,300	47,200	59,200	34,400	34,400	59,200	47,200	35,300	11,800	67,100	112,200	102,400	
															Total Curies =		938,300

1st load

SOURCE LISTING FOR CFC LOGISTICS
CONTAINER NUMBER: 3750/06

	Source Number	Content Activity 1 October 2003 kCi
1	15666EE	12.0
2	15689EE	11.9
3	15687EE	12.3
4	15696EE	12.3
5	15694EE	12.3
6	15693EE	12.2
7	15680EE	12.1
8	15983EE	12.0
9	15858EE	12.2
10	15857EE	11.8
11	15859EE	11.8
12	15863EE	11.1
13	15862EE	11.9
14	15861EE	11.7
Total		167.6



ow

2nd Load

SOURCE LISTING FOR CFC LOGISTICS
CONTAINER NUMBER: 3750A/02

	Source Number	Content Activity 1 November 2004 kCi
1	17056EE	11.8
2	16963EE	11.9
3	16948EE	12.0
4	17014EE	11.6
5	17114EE	11.8
6	17013EE	11.8
7	17113EE	11.8
8	17112EE	11.8
9	17025EE	11.9
10	17108EE	11.9
11	17107EE	12.0
12	17106EE	12.0
13	17017EE	12.0
14	17022EE	12.2
15	17076EE	12.2
16	17072EE	12.3
17	17105EE	12.3
18	17075EE	12.4
	Total	215.7

Handwritten checkmarks and a signature on the right side of the table.

**STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE**

PAGE 1

CARRIER NAME **KRISKA TRANSPORT**

SHIPMENT ID NUMBER

R200366/1

CARRIER ADDRESS

FREIGHT BILL PRO NO.
CARRIER USE

SCAC

DUNS

On Collect on Delivery shipments the letters

TRAILER / CAR NUMBER

TO: MDS NORDIOM
Consignee **447 MARCH ROAD**
OTTAWA, ONTARIO K2K 1X8
Street **CANADA**
Destination (Code) **SECURITY #36905**

ROUTE

FROM: CFC LOGISTICS
Shipper **400 AM DRIVE**
Street **QUAKERTOWN, PA 18951**
ATTN: LUKE TRAUGER
ZIP **TEL: 215-529-9522**
Origin

SPECIAL INSTRUCTIONS

24 HOR EMERGENCY CONTACT #
MDS NORDIOM 613-592-2790

FOR PAYMENT SEND BILL TO:

SHIPPER'S INTERNAL DATA

Name
Street
City

TRUCK #2

SID NO.

#SHIPPING UNITS	H/M	KIND OF PACKAGING, DESCRIPTION OF ARTICLES SPECIAL MARKS AND EXCEPTIONS	WEIGHT	RATE	CHARGES
3		<p>CASES SO 200366</p> <p align="center">AVERAGE SURFACE HEAT FLUX EXCEEDS 15 W/M2 TARPS MAY BE REMOVED TO ALLOW FOR HEAT DISSIPATION. 11,117 KGS</p> <p>"RQ" RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, 7, UN2916 HIGHWAY ROUTE CONTROLLED QUANTITY COBALT 60, SPECIAL FORM, 12801 TBQ CHEMICAL FORM: ELEMENT PHYSICAL FORM: SOLID F168 #48 634F TBQ, TRANSPORT INDEX: 5.5 F168 #52 6454 TBQ, TRANSPORT INDEX: 5.0 RADIOACTIVE YELLOW III CNSC CERT. CDN/2012/B(U), REV.21 US ENDORSEMENT USA/6306/B(U), REV.15 4, CLASS 7 PLACARDS REQUIRED</p> <p>1 CASE INSTALLATION TOOLS (TB #3)</p>	COPY		

REMIT C.O.D.

COD AMT:\$

TO ADDRESS

Subject to Section 7 of conditions. If this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

PREPAID

COLLECT

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by shipper to be not exceeding

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TOTAL CHARGES \$

FREIGHT CHARGES ALL PREPAID UNLESS MARKED COLLECT

\$ PER KG

Signature of Consignor

CHECK BOX IF COLLECT

RECEIVED, SUBJECT TO THE CLASSIFICATION AND TARIFF IF OFFERED ON THE DATE OF THE ISSUE OF THIS BILL OF LADING, THE PROPERTY DESCRIBED ABOVE IN APPARENT GOOD ORDER, EXCEPT AS NOTED (CONTENTS AND CONDITION OF CONTENTS OF PACKAGES UNKNOWN), MARKED, CONSIGNED AND DESTINED AS INDICATED ABOVE WHICH SAID CARRIER (THE WORD CARRIER BEING UNDERSTOOD THROUGHOUT THIS CONTRACT AS MEANING ANY PERSON OR CORPORATION IN POSSESSION OF THE PROPERTY UNDER THE CONTRACT), AGREES TO CARRY TO ITS USUAL PLACE OF DELIVERY OF SAID DESTINATION, IN OR ITS ROUTE, OTHERWISE TO DELIVER TO ANOTHER CARRIER ON THE ROUTE TO SAID DESTINATION, IT IS MUTUALLY AGREED AS TO EACH CARRIER OF ALL OR ANY OF SAID PROPERTY OVER ALL OR ANY PORTION OF SAID ROUTE TO DESTINATION AND AS TO EACH PARTY AT ANY TIME INTERESTED IN ALL OR SAID PROPERTY, THAT EVERY SERVICE IN THE PERFORMANCE WHEREUNDER SHALL BE SUBJECT TO ALL THE BILL OF LADING TERMS AND CONDITIONS IN THE GOVERNING CLASSIFICATION ON THE DATE OF SHIPMENT SHIPPER HEREBY CERTIFIES THAT HE IS FAMILIAR WITH ALL THE BILL OF LADING TERMS AND CONDITIONS IN THE GOVERNING CLASSIFICATION AND SAID TERMS AND CONDITIONS ARE HEREBY AGREED BY THE SHIPPER AND ACCEPTED BY HIMSELF AND ASSIGNS.

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 applicable regulations of the Department of Transportation.

SHIPPER CFC LOGISTICS	CARRIER KRISKA TRANSPORT
PER <i>[Signature]</i> 5/19/05	PER <i>[Signature]</i> DATE 05 MAY 19

* MARK WITH X OR RQ IF APPROPRIATE TO DESIGNATE HAZARDOUS MATERIALS OR HAZARDOUS SUBSTANCES AS DEFINED IN THE DEPARTMENT OF TRANSPORTATION REGULATIONS GOVERNING THE TRANSPORTATION OF HAZARDOUS MATERIALS. THE USE OF THIS COLUMN IS AN OPTIONAL METHOD FOR IDENTIFYING HAZARDOUS MATERIALS ON BILLS OF LADING PER SECTION 172.201 (A) (1) (ii) OF TITLE 49, CODE OF FEDERAL REGULATIONS. ALSO, WHEN SHIPPING HAZARDOUS MATERIALS, THE SHIPPER'S CERTIFICATION STATEMENT PRESCRIBED IN SECTION 172.204(A) OF THE FEDERAL REGULATIONS MUST BE INDICATED ON THE BILL OF LADING, UNLESS A SPECIFIC EXCEPTION FROM THIS REQUIREMENT IS PROVIDED IN THE REGULATIONS FOR A PARTICULAR MATERIAL.

**STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE**

PAGE 1

CARRIER NAME **KRISKA TRANSPORT**

SHIPMENT ID NUMBER

R200366

CARRIER ADDRESS

FREIGHT BILL PRO NO.
CARRIER USE

SCAC

DUNS

On Collect on Delivery shipments the letters

TRAILER / CAR NUMBER

TO: MDS NORDION
Consignee **447 MARCH ROAD**
OTTAWA, ONTARIO K2K 1X8
Street
CANADA
Destination
(Code) **SECURITY #36905**

ROUTE

FROM: CFC LOGISTICS
Shipper **400 AM DRIVE**
Street
QUAKERTOWN, PA 18951
ATTN: LUKE TRAUGER
ZIP
Origin **TEL: 215-529-9522**

SPECIAL INSTRUCTIONS

24 HR EMERGENCY CONTACT #
MDS NORDION 613-592-2790

FOR PAYMENT SEND BILL TO:

SHIPPER'S INTERNAL DATA

Name
Street
City

TRUCK #1

SID NO.

#SHIPPING UNITS	H/M	KIND OF PACKAGING, DESCRIPTION OF ARTICLES SPECIAL MARKS AND EXCEPTIONS	WEIGHT	RATE	CHARGES
3		<p>CASES SO 200366</p> <p align="center">AVERAGE SURFACE HEAT FLUX EXCEEDS 15 W/M2 TARPS MAY BE REMOVED TO ALLOW FOR HEAT DISSIPATION GROSS WEIGHT: 16335 KGS.</p> <p>"RQ" RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, 7, UN2916 HIGHWAY ROUTE CONTROLLED QUANTITY COBALT 60, SPECIAL FORM, 19548 TBQ CHEMICAL FORM: ELEMENT PHYSICAL FORM: SOLID F168 #33 6302 TBQ, TRANSPORT INDEX: 5.0 F168 #42 6692 TBQ, TRANSPORT INDEX: 5.3 F168 #43 6554 TBQ, TRANSPORT INDEX: 6.0 RADIOACTIVE YELLOW III CMSC CERT. CDW/2012/B(U), REV. 21 US ENDORSEMENT USA/6306/B(U), REV. 15 4, CLASS 7 PLACARDS REQUIRED</p>	COPY		

REMIT C.O.D.

COD AMT:\$

TO
ADDRESS

Subject to Section 7 of conditions. If this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

PREPAID

COLLECT

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by shipper to be not exceeding

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TOTAL CHARGES \$

FREIGHT CHARGES ALL PREPAID
UNLESS MARKED COLLECT

CHECK BOX IF COLLECT

\$ PER KG

Signature of Consignor

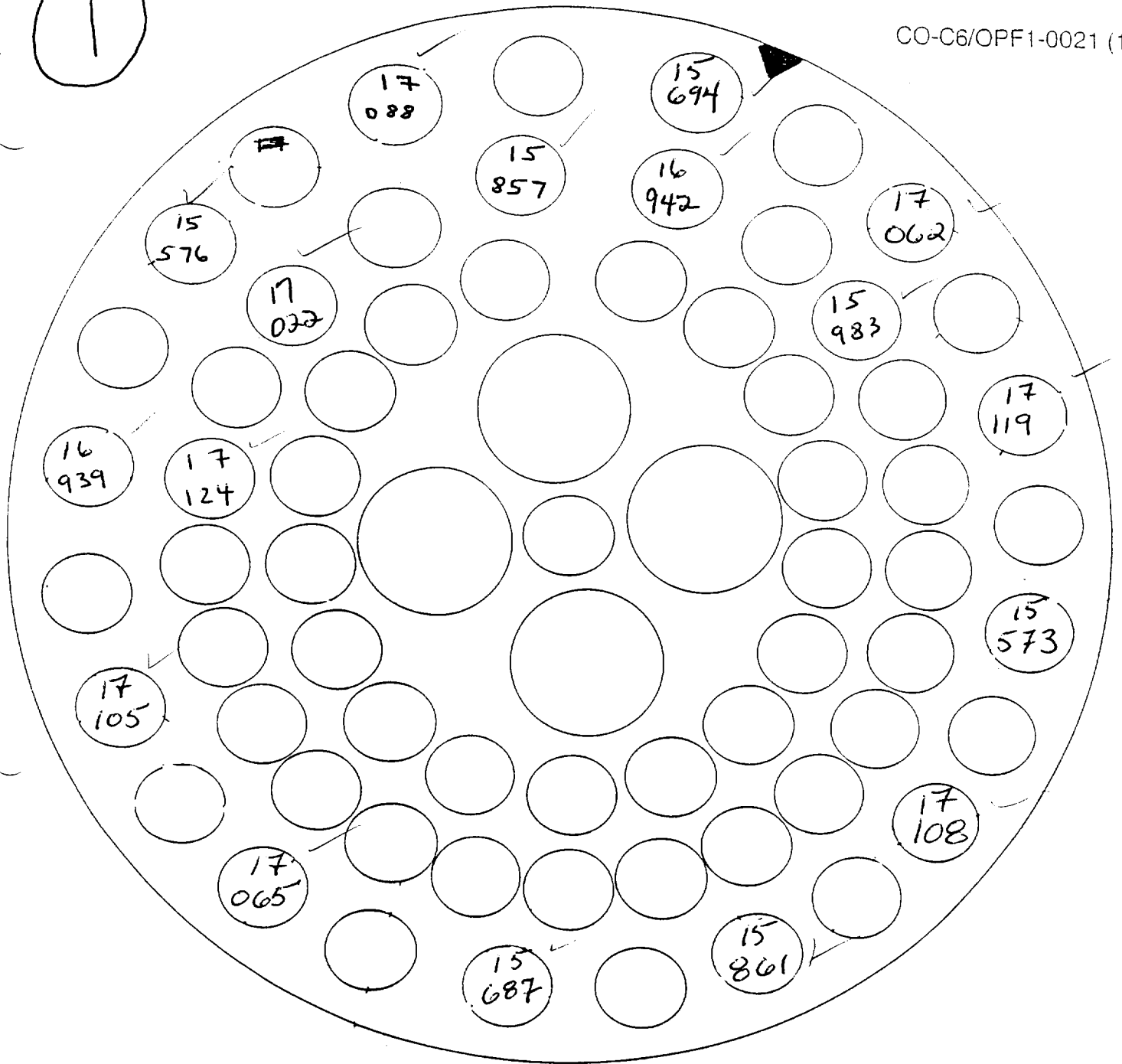
RECEIVED, SUBJECT TO THE CLASSIFICATION AND TARIFF IF OFFERED ON THE DATE OF THE ISSUE OF THIS BILL OF LADING, THE PROPERTY DESCRIBED ABOVE IN APPARENT GOOD ORDER, EXCEPT AS NOTED (CONTENTS AND CONDITION OF CONTENTS OF PACKAGES UNKNOWN), MARKED, CONSIGNED AND DESTINED AS INDICATED ABOVE WHICH SAID CARRIER (THE WORD CARRIER BEING UNDERSTOOD THROUGHOUT THIS CONTRACT AS MEANING ANY PERSON OR CORPORATION IN POSSESSION OF THE PROPERTY UNDER THE CONTRACT), AGREES TO CARRY TO ITS USUAL PLACE OF DELIVERY OF SAID DESTINATION, IN OR ITS ROUTE, OTHERWISE TO DELIVER TO ANOTHER CARRIER ON THE ROUTE TO SAID DESTINATION. IT IS MUTUALLY AGREED AS TO EACH CARRIER OF ALL OR ANY OF SAID PROPERTY OVER ALL OR ANY PORTION OF SAID ROUTE TO DESTINATION AND AS TO EACH PARTY AT ANY TIME INTERESTED IN ALL OR SAID PROPERTY, THAT EVERY SERVICE IN THE PERFORMED HEREUNDER SHALL BE SUBJECT TO ALL THE BILL OF LADING TERMS AND CONDITIONS IN THE GOVERNING CLASSIFICATION AND SAID TERMS AND CONDITIONS ARE HEREBY AGREED BY THE SHIPPER AND ACCEPTED BY HIMSELF AND ASSIGNS. THE BILL OF LADING TERMS AND CONDITIONS IN THE GOVERNING CLASSIFICATION AND SAID TERMS AND CONDITIONS ARE HEREBY AGREED BY THE SHIPPER AND ACCEPTED BY HIMSELF AND ASSIGNS.

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 applicable regulations of the Department of Transportation.

SHIPPER CFC LOGISTICS	CARRIER KRISKA TRANSPORT
PER <i>[Signature]</i> 5/19/05	PER <i>[Signature]</i> DATE 05 MAY 19

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1



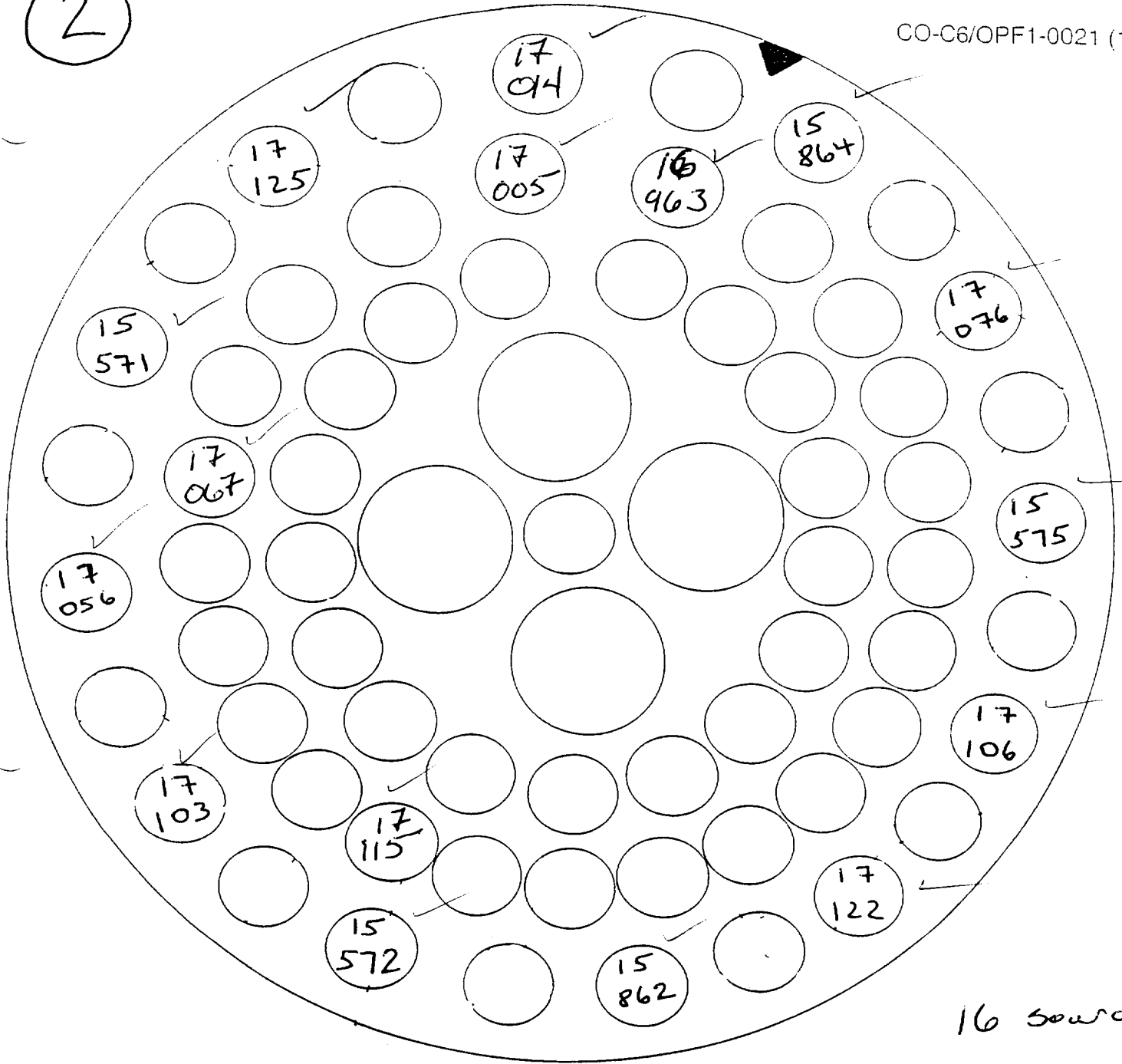
17 sources

Container Model: F168 S/N: _____
 Carrier Model: F234 S/N: 216
 Container Number: 1 of 1
 Loading Date:
 Order Number: ~~009545~~ 200366
 Container Activity: 187663 Series 180681 Ci
 (6943.5 TBq) C692 TBq
 Activity Reference Date: 2003/06/18 May 18, 2005
 Report Date: 2003/06/10

MDS Nordion
 Science Advancing Health

**Loading Chart for
 F168 Source Carrier**

2



16 sources

Container Model: F168

S/N: _____

Carrier Model: F234

S/N: 586

Container Number: 1 of 1

Loading Date:

Order Number: ~~069548~~

200366

Container Activity: ~~187003 Curie~~

170163 Ci

(6943.5 TBq)

6302 TBq

Activity Reference Date: ~~20030613~~

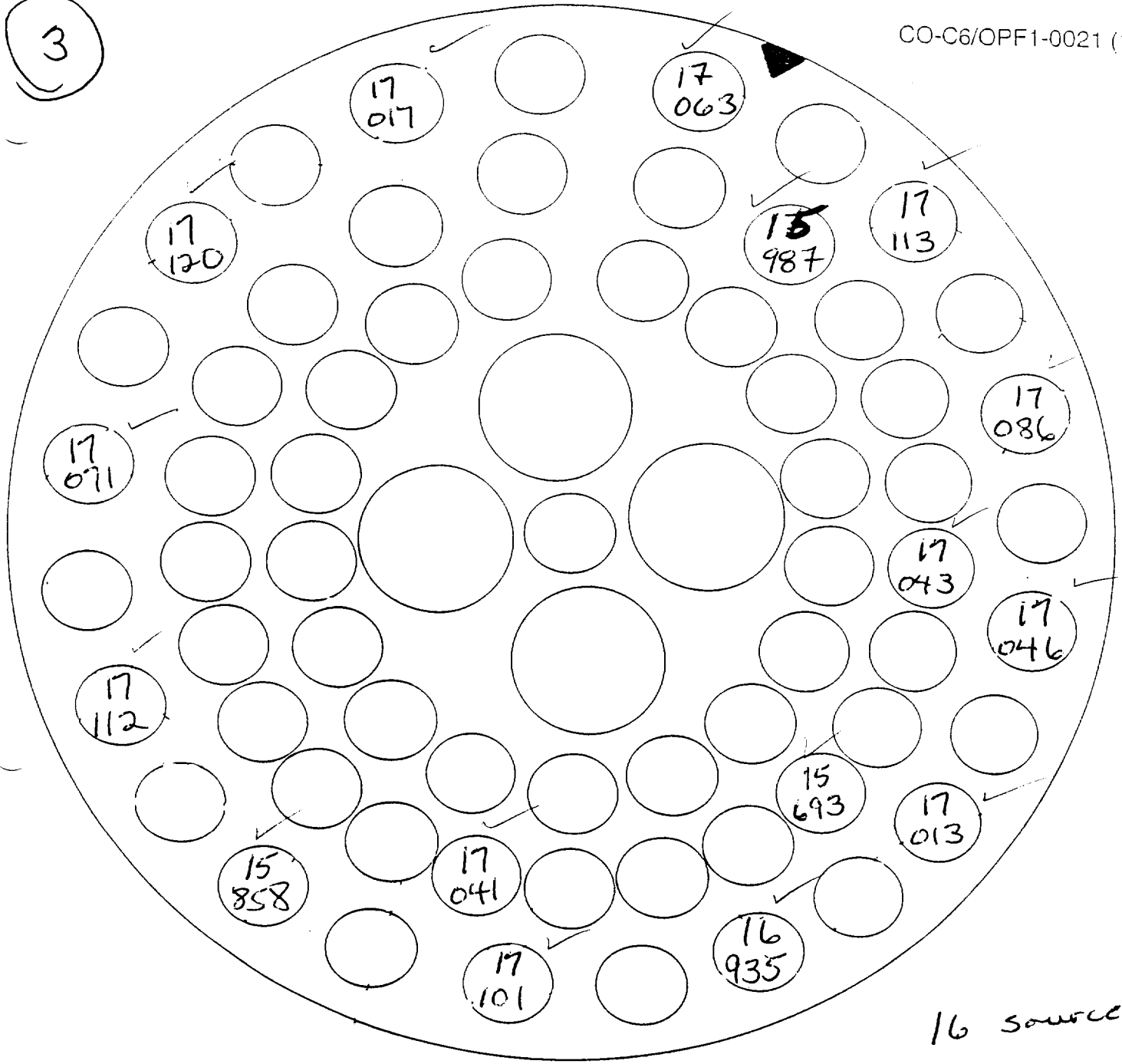
May 18, 2005

Report Date: ~~20030610~~

MDS Nordion
Science Advancing Health

**Loading Chart for
 F168 Source Carrier**

3



16 sources

Container Model: F168 S/N: _____

Carrier Model: F234 S/N: 62

Container Number: 1 of 1

Loading Date:

Order Number: ~~660548~~

200366
174258 CC
0454 TBq
May 18, 2005

Container Activity: ~~187003 Curies~~

(6943.5 TBq)

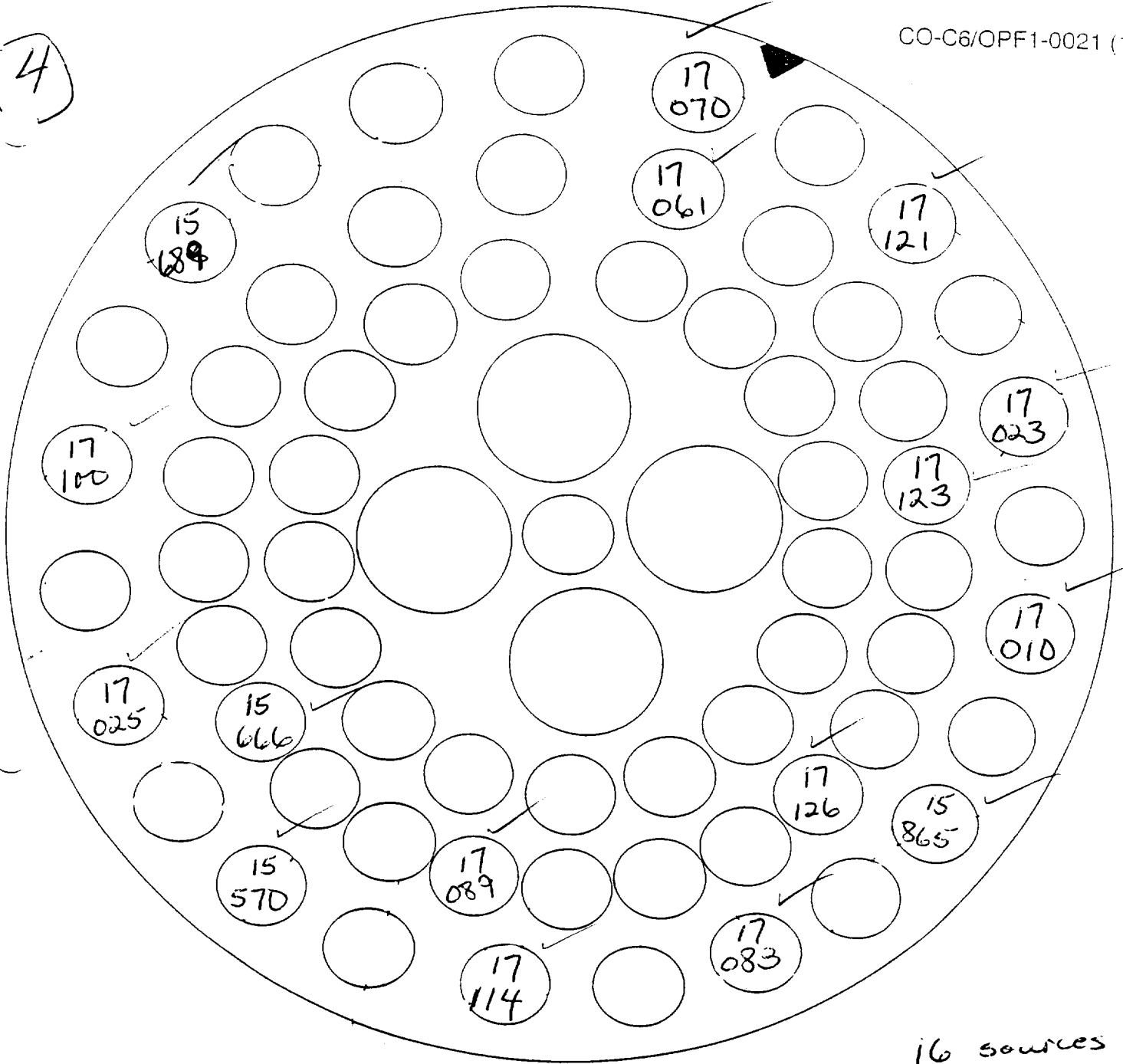
Activity Reference Date: 2003/06/13

Report Date: 2003/06/10

MDS Nordion
Science Advancing Health

**Loading Chart for
F168 Source Carrier**

4



16 sources

Container Model: F168

S/N: _____

Carrier Model: F234

S/N: 562

Container Number: 1 of 1

Loading Date:

Order Number: ~~009548~~ 200366

Container Activity: ~~182883 Games~~ 171373 Ci

(6942.5 TBq)

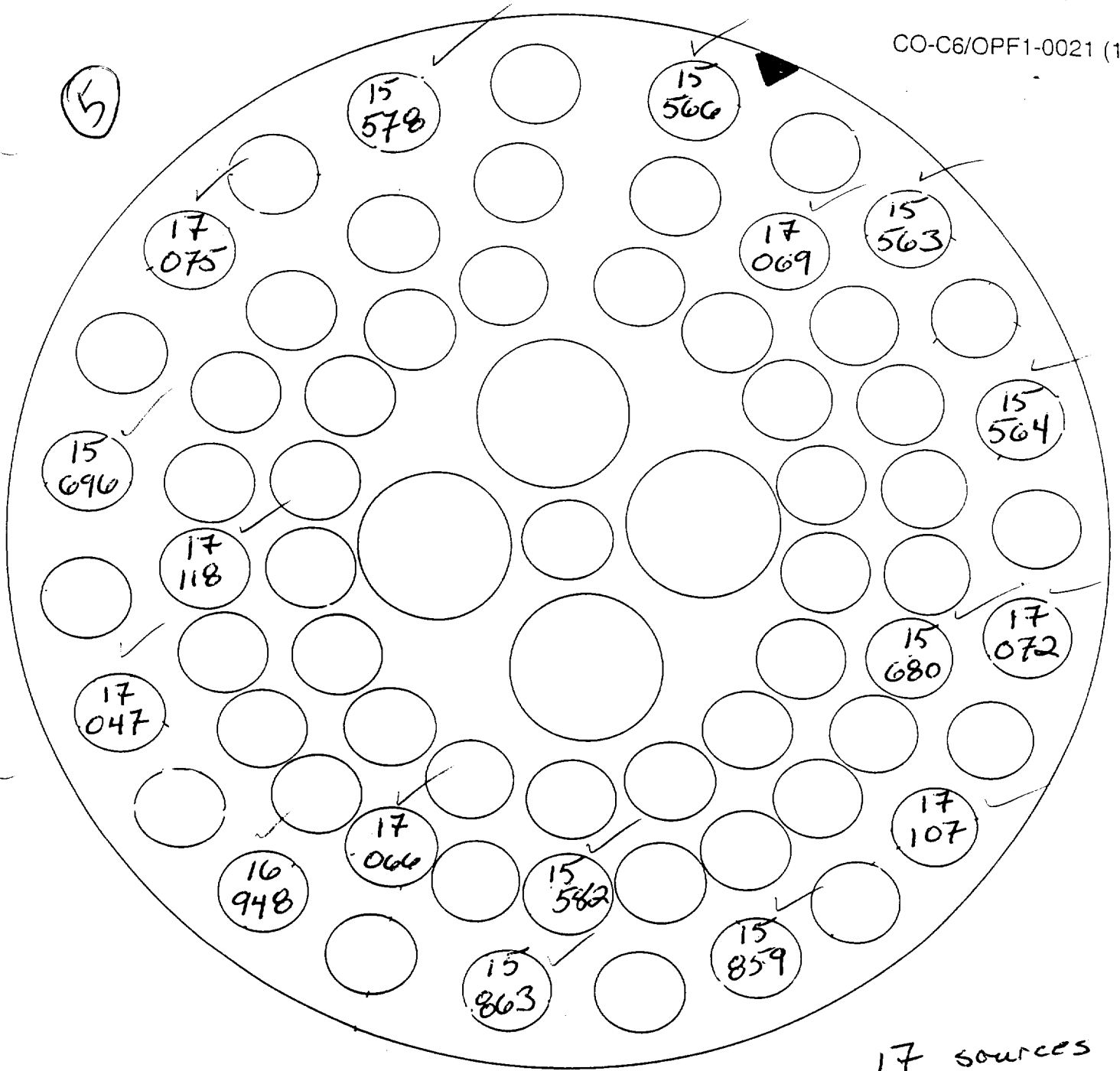
6347 TBq
May 18, 2005

Activity Reference Date: ~~2000/06/13~~

Report Date: ~~2003/06/10~~

MDS Nordion
Science Advancing Health

**Loading Chart for
F168 Source Carrier**



17 sources

Container Model: F168

S/N: _____

Carrier Model: F234

S/N: 557

Container Number: 1 of 1

Loading Date:

200360

Order Number: ~~069548~~

Container Activity: 187663 Curies

176958 Ci

(6943.5 TBq)

6554 TBq

Activity Reference Date: ~~2003/06/13~~

May 18, 2005

Report Date: ~~2003/06/10~~

MDS Nordion
 Science Advancing Health

Loading Chart for
 F168 Source Carrier

MDS Nordion Voice: 613-592-3400 ext. 2524
447 March Road Fax: 613-591-7423
Ottawa, Ontario, Canada K2K 1X8
www.mds.nordion.com

MDS Nordion

Science Advancing Health

To: Mr. Luke Trauger
CFC Logistics
Sender: Kevin O'Hara
Senior Radiation Physicist
Date: Thursday, June 02, 2005
Copy: Terry Kehoe
Customer Quotation 2005118
Total # of pages including this page: 1

CFC Logistics, Quakertown, PA, USA - Irradiator Decommissioning Report

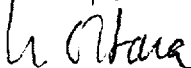
MDS Nordion has decommissioned CFC Logistics Category III Irradiator according to MDS Nordion internal procedure IN/OP 0165 Co60, 'Decommissioning Procedure for a Category IV Cobalt-60 Panoramic Wet Storage Gamma Irradiator'. The principles and philosophy of this procedure apply directly to a Category III irradiator.

All radiation sources were removed and returned to MDS Nordion. Eighty-two (82) sources totalling 938,300 Ci (as off 2004 Nov. 01) were shipped to MDS Nordion, which matches exactly with the number of sources that were in the irradiator.

The source rack and modules were wiped. All wipes were measured with a Bicron Surveyor 2000 pancake probe. All wipe contamination results indicated no detectable activity. Water samples were taken from the pool. All water samples were measured with a Multi-channel Analyzer. All water contamination results indicated no detectable activity. Resin samples were taken. All resin samples were measured with a Multi-channel Analyzer. All resin contamination results indicated no detectable activity.

Conclusion: All wipes, water and resin samples have been analyzed. All contamination results indicate no detectable activity. CFC Logistics Cat. III Irradiator, Quakertown, PA, USA is decommissioned. Since no detectable contamination was measured, CFC Logistics may choose to discharge the pool water into the sanitary sewage system (according to CFR 20.2003).

Sincerely,



Kevin O'Hara

Kevin P.J. O'Hara, Senior Radiation Physicist
Ion Technologies Business Unit, MDS Nordion Inc.
Tel: (613) 592-3400 Ext 2524
Fax: (613) 591-7423
email: kohara@mds.nordion.com
www.mds.nordion.com

MDS Nordion - Applied Physics/Radiation Measurement
CFC Logistics Decommissioning Report

ROUTINE WIPE TEST FOR CONTAMINATION AND LEAK TEST FORM

447 March Road, Kanata, Ontario, Canada K2K 1X8. Telephone: (613) 592-2790 Telefax: (613) 591-6815

Customer Information

Order No. 200366 Customer Name CFC Logistics
Customer's Location _____

Irradiator Type and Radiation Source Characteristics

Irradiator Type: non portable (e.g. JS-8900, GC-3000) Serial Number N/A Radiation Source Type: ⁶⁰Co or ¹³⁷Cs

Note: Initial all boxes

Wipe Test Details

Wipe Test Performed on: **1. Surface Tests**

- Surface of Transport Package
 Category I & II Irradiators
 Plug and Cavity of Transport Package

2. Source Tests

- Underwater Source
 SOURCE HANDLING TOOLS
 OTHER: Decommission of Gregstar Irradiator

(SPECIFY)

Description of Procedure Used: Initial One or more: J-Cloth Filter Paper Styrofoam Other: _____

Initial One or more: Wet Wipe Dry Wipe Other: _____

Survey Meter Details and Measurement Results

Survey Meter Make and Model: Bicon Surveyor 2000, with Pancake Probe Other _____ (Specify)

Survey Meter S.N.: C5981E Calibration Expiry Date: Oct 22/04

Pancake Probe S.N.: B26661

Instrument Conversion Factor: **Source Tests**

825 cpm = 5 nCi (185 Bq) for ⁶⁰Co (see SE-CA-006 F1), or
N/A cpm = 5 nCi (185 Bq) for ¹³⁷Cs (see SE-CA-006 F1)

Background Reading: 35 cpm (A)

Gross Wipe Reading: 35 cpm (B)

Net Wipe Reading: 0 cpm (C) = (B) - (A). Choose the calculation I, or II.

1. Surface Tests

Wipe Test Results: Negative. Contamination < 0.4 Bq/cm². No further action is required. Retain all wipes for further testing.

Positive. Contamination ≥ 0.4 Bq/cm². Outline initial corrective action on this form. Follow relevant SOP.

2. Source Tests

(I) Measured Removable Contamination = $\frac{\text{Net Wipe Reading (cpm)} \times 5 \text{ nCi}}{\text{cpm}}$ = _____ nCi Cobalt - 60

(II) Measured Removable Contamination = $\frac{\text{Net Wipe Reading (cpm)} \times 5 \text{ nCi}}{\text{cpm}}$ = _____ nCi Cesium - 137

Wipe Test Results: Negative. Contamination < 5 nCi. No further action is required. Retain all wipes for further testing.

Positive. Contamination ≥ 5 nCi. Outline initial corrective action on this form. Follow relevant SOP.

ROUTINE WIPE TEST FOR CONTAMINATION AND LEAK TEST FORM

Initial the MDS Nordion Wipe Test Procedure Followed

- IN/IM 0273 Co60, Routine Wipe Test for the Detection of Radioactive Contamination for Submerged Cobalt 60 Source Assemblies
- IN/OP 0274 F000, Underwater Transport Package Unload Procedure (requires a separate form)
- IN/OP 0275 F000, Underwater Transport Package Load Procedure
- IN/OP 0276 CO60, Source Holder Load Procedure for a Wet Storage Irradiator
- IN/IM 0278 A000, Routine Wipe Test for ANSI Category I and II Irradiators (^{60}Co and ^{137}Cs)
- IN/OP 0282 F168, Procedure for the Receipt of an F-168 Transport Package
- IN/IM 0293 F000, Routine Wipe Test for the Detection of Radioactive Surface Contamination for a Type B(U) Transport Package

Reference Information Documents

1. IN/DS 0277 IR000, Radiation Survey Specification for Category III and IV Irradiators
2. IN/DS 0517 F168, Preparation for Shipment of the F-168 and F168-X Transport Packagings
3. IN/DS 1093 Z000, Information Document on Survey Meters use by MDS Nordion's Installation and Service Group
4. SE-CA-006, Calibration of a Detection System for the Measurement of Loose Contamination on Swipe

Standard Operating Procedure List and Proper Usage

1. Handling Tools Work Table - IN/IM 0273 Co 60
2. Source Rack - IN/IM 0273 Co 60
3. Building Survey - IN/DS 0277 IR000
4. Leak Test - IN/OP 0282 F168
5. Shipping Container and Inner Plug - IN/IM 0293 F000
6. Torque Specs and Return of Sources Procedure - IN/DS 0517 F168

Outline Initial Corrective Action (if required):

Corrective Action Taken by _____ (Name) _____ (Signature)

Corrective Action Performed on _____ (Date)

Wipe Test Performed by and Result Certified by A. Pallister (Name) [Signature] (Signature)

Service Rep (Title) May 17/05 (Date)

For MDS Nordion Internal Use Only

Measurement Result Confirmed by R.G. Duncan (Name) [Signature] (Signature)

MEASUREMENT RESULT CONFIRMED ON 18 MAY/05 (DATE)

ROUTINE WIPE TEST FOR CONTAMINATION AND LEAK TEST FORM

447 March Road, Kanata, Ontario, Canada K2K 1X8. Telephone: (613) 592-2790 Telefax: (613) 591-6815

Customer Information

Order No. 200366 Customer Name CFC Logistics
 Customer's Location _____

Irradiator Type and Radiation Source Characteristics

Irradiator Type Non-Normalization (e.g. JSS-900, GC-3000) Serial Number N/A Radiation Source Type: ⁶⁰Co or ¹³⁷Cs

Note: Initial all boxes

Wipe Test Details

Wipe Test Performed on: **1. Surface Tests** Surface of Transport Package
 Category I & II Irradiators
 Plug and Cavity of Transport Package

2. Source Tests
 Underwater Source
 SOURCE HANDLING TOOLS
 OTHER: _____

(SPECIFY)

Description of Procedure Used: Initial One or more: I-Cloth Filter Paper Styrofoam Other: _____
 Initial One or more: Wet Wipe Dry Wipe Other: _____

Survey Meter Details and Measurement Results

Survey Meter Make and Model: AP Bicon Surveyor 2000, with Pancake Probe Other _____ (Specify)
 Survey Meter S.N.: C598E Calibration Expiry Date: Oct 22/04
 Pancake Probe S.N.: B266G

Instrument Conversion Factor: **Source Tests**
825 cpm = 5 nCi (185 Bq) for ⁶⁰Co (see SE-CA-006 F1), or
N/A cpm = 5 nCi (185 Bq) for ¹³⁷Cs (see SE-CA-006 F1)

Background Reading: 35 cpm (A)
 Gross Wipe Reading: 35 cpm (B)
 Net Wipe Reading: 0 cpm (C) = (B) - (A). Choose the calculation I, or II.

1. Surface Tests

Wipe Test Results: Negative. Contamination < 0.4 Bq/cm². No further action is required. Retain all wipes for further testing.
 Positive. Contamination ≥ 0.4 Bq/cm². Outline initial corrective action on this form. Follow relevant SOP.

2. Source Tests

(I) Measured Removable Contamination = $\frac{\text{Net Wipe Reading (cpm)} \times 5 \text{ nCi}}{\text{cpm}}$ = _____ nCi Cobalt - 60

(II) Measured Removable Contamination = $\frac{\text{Net Wipe Reading (cpm)} \times 5 \text{ nCi}}{\text{cpm}}$ = _____ nCi Cesium - 137

Wipe Test Results: Negative. Contamination < 5 nCi. No further action is required. Retain all wipes for further testing.
 Positive. Contamination ≥ 5 nCi. Outline initial corrective action on this form. Follow relevant SOP.

MDS Nordion Telephone: 613 592-2790
447 March Road Fax: 613 592-6815
Ottawa Ontario Canada K2K 1X8



Science Advancing Health

Fax Transmission

To:	Luke Trauger	Fax:	1-215-529-9512
Company:	CFC Logistics	Date:	June 7, 2005
Sender:	Dan Aitkenhead	Copy:	
Subject:	Certificates	Total # of pages including this page:	5

Dear Luke,

Here are the certificates you requested.

If you need anything else please call me at 1-800-465-3666 ext. 2290

Regards,

A handwritten signature in black ink, appearing to read 'Dan Aitkenhead'.

Dan Aitkenhead
Sales Support
MDS Nordion

ROUTINE WIPE TEST FOR CONTAMINATION AND LEAK TEST FORM

Initial the MDS Nordion Wipe Test Procedure Followed

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- IN/OP 0275 F000, Underwater Transport Package Load Procedure
- IN/OP 0276 CO60, Source Holder Load Procedure for a Wet Storage Irradiator
- IN/IM 0278 A000, Routine Wipe Test for ANSI Category I and II Irradiators (⁶⁰Co and ¹³⁷Cs)
- IN/OP 0282 F168, Procedure for the Receipt of an F-168 Transport Package
- IN/IM 0293 F000, Routine Wipe Test for the Detection of Radioactive Surface Contamination for a Type B(U) Transport Package

Reference Information Documents

1. IN/DS 0277 IR000, Radiation Survey Specification for Category III and IV Irradiators
2. IN/DS 0517 F168, Preparation for Shipment of the F-168 and F168-X Transport Packagings
3. IN/DS 1093 Z000, Information Document on Survey Meters use by MDS Nordion's Installation and Service Group
4. SE-CA-006, Calibration of a Detection System for the Measurement of Loose Contamination on Swipe

Standard Operating Procedure List and Proper Usage

1. Handling Tools Work Table - IN/IM 0273 Co 60
2. Source Rack - IN/IM 0273 Co 60
3. Building Survey - IN/DS 0277 IR000
4. Leak Test - IN/OP 0282 F168
5. Shipping Container and Inner Plug - IN/IM 0293 F000
6. Torque Specs and Return of Sources Procedure - IN/DS 0517 F168

Outline Initial Corrective Action (if required):

Corrective Action Taken by _____ (Name) _____ (Signature)

Corrective Action Performed on _____ (Date)

Wipe Test Performed by and Result Certified by A.J. Pallister (Name) [Signature] (Signature)

Service Rep (Title) May 18/05 (Date)

For MDS Nordion Internal Use Only

Measurement Result Confirmed by R.G. Duncan (Name) [Signature] (Signature)

MEASUREMENT RESULT CONFIRMED ON 18 MAY/05 (DATE)

447 March Road
Ottawa, ON K2K 1X8
Canada

Tel: +1 613 592 2790
Fax: +1 613 592 6937
www.mds.nordion.com



CERTIFICATE OF CALIBRATION

CONTAMINATION MONITORING AND LEAK TEST INSTRUMENT

OWNER: MDS NORDION - ION TECH (RSM-70)
SURVEY METER: BICRON MODEL: SURVEYOR 2000 SERIAL NO.: C598E
PANCAKE DETECTOR: BICRON MODEL: PG41 SERIAL NO.: B2664

CALIBRATION SOURCES:

132 Bq ¹³⁷Cs on OCT 22 2004
89 Bq ⁶⁰Co on OCT 22 2004

CALIBRATION GEOMETRY: SOURCE TO FRONT FACE OF DETECTOR = 1 cm.

CONVERSION FACTOR:

- 1360 CPM = 185 Bq (5nCi) OF ¹³⁷Cs or Efficiency = 12.2 %
- 825 CPM = 185 Bq (5nCi) OF ⁶⁰Co or Efficiency = 7.4 %

The accuracy of the measurement is within ± 20%

CALIBRATION BY: [Signature]

DATE: OCT 22 / 2004

AUTHORIZATION: [Signature]

DATE: OCT 25, 2004

COMMENTS: _____

RSM-70
OCT
22
05

RECEIVED
[Signature]

117 March Road
Ottawa, ON K2K 1X8
Canada

Tel: +1 613 592 2790
Fax: +1 613 592 6937
www.mds.nordion.com



CERTIFICATE OF CALIBRATION

RADIATION SURVEY INSTRUMENT

OWNER: MDS NORDION - ION TECH. (RSM-70)
 INSTRUMENT MAKE: BICKON MODEL: SURVEYOR 2000 SERIAL NO: C598E
 DETECTOR TYPE: ION CHAMBER G.M. PROBE NO: C858E
 CALIBRATION SOURCE: 240 mCi ¹³⁷Cs 89.28 mR/h @ 1 meter on JUL 1 2004
 (NOMINAL)
 CALIBRATION GEOMETRY:
 (IF APPLICABLE) TEMPERATURE: N/A
 PRESSURE: N/A
 HUMIDITY: 41%

PRE-CALIBRATION CHECK:

1. VISUAL CHECK OF THE PHYSICAL CONDITION OF THE INSTRUMENT
2. BATTERY CHECK
3. HIGH VOLTAGE CHECK
4. ZERO CHECK N/A
5. ALARM CHECK

NOTE: The calibration factor is the ratio: $\frac{\text{Expected Exposure Rate}}{\text{Observed Exposure Rate}}$

EXPOSURE RATE (mR/h)

EXPECTED	0.1	0.5 / 1.5	5.0 / 15	50 / 150	500
OBSERVED	0.1	0.5 / 1.5	5.0 / 14.7	57 / 142	490
CAL FACTOR	1.0	1.0 / 1.0	1.0 / 1.02	0.88 / 1.06	1.02
RANGE USED	x 0.1	x 1	x 10	x 100	x 1000

CALIBRATION BY: [Signature] DATE: OCT 22 / 2004
 AUTHORIZATION: [Signature] DATE: OCT 25, 2004
 COMMENTS: * THE INTERNAL GM TUBE WAS USED FOR CALIBRATION
OF THE X (0-500) RANGE ONLY.

The Calibration Source J.L. Shepard & Associates Type 6810 Capsule S.N. A-861 is traceable to N.I.S.T.

This calibration is in compliance with USNRC Regulatory Guide 10.8, Appendix B, Revision 2, and AECB Regulatory Document R-117.

SE-CA-002 F1 (4)

RSM-70 OCT 22 05

[Handwritten initials]



INSTRUMENT EFFICIENCY CHECK RECORD

SCALER/CRM: cpm Date: 01-Nov-04
 HIGH VOLTAGE: 900 V
 INSTRUMENT MAKE: BICRON MODEL: SURVEYOR SERIAL: C598E
 2000
 PROBE MAKE: BICRON MODEL: PGM SERIAL: B266G
 UNIT ID: RSM 70

DATE	TEST SOURCE	EFM 2PI	OBS CPM	BRND CPM	PREV EFF %	NEW EFF %
1-Nov-04	CO-60	23,927.80	5,500.00	35		11.42
1-Nov-04	CS-137	6,086.65	1,800.00	35		14.50
1-Nov-04	U-238	8,532.00	3,500.00	35		41

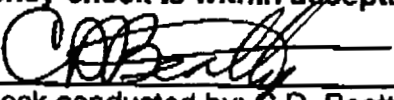
Efficiency check geometry: Source to detector face = 0.5 cm
 Expected values: CO-60=16%, CS-37=18%, U-238= 60%

EFF/CPM Conversion for 185 Bq (5 nCi)

TEMP :	C ^o	CO-60:	984.81	CPM	
R.H.:	%	CS-137:	1,656.72	CPM	(IR-192)
		U-238:	4,553.45	CPM	

Comments:

The efficiency check is within acceptable limits.


 Signature Date: 1-Nov-04
 Check conducted by: C.D. Beatty

Source Data

Cobalt 60 Source: HN-775, 70890 grams, NUD-201, as of: 1 Aug 00
 Cesium 137 Source: 220137, 8502 grams, NUD-201, as of: 23 Jul 00
 Uranium 238 Source: KK-422, 8.53 grams, EFM as of: 16 Mar 97

CFC LOGISTICS DE-COMMISSION
Jun/7/2005 7:00:47AM

HEADER INFORMATION in BKR10133.S0

Identification		Acquisition	
User	: G Chupick	Started	: May/31/2005 4:11:41PM
MCArd	: 1	Stopped	: May/31/2005 4:45:02PM
Detector	: MCA #2	True Time	: 2000.249 sec
Geometry	: 1 Litre Beaker	Live Time	: 2000.000 sec
Sample	: 1	Dead Time	: 0.01 %
Channels	: 8192	Gross Count	: 6759 counts
		LTC	: 1.0000005
		Gross Rate	: 3.3795 cps

Sample
Sampled from May/31/2005 4:45:06PM to May/31/2005 4:11:41PM

Energy Calibration May/19/2005 8:37:41AM BKR10096.S0
Resolution Calibration Jul/18/2003 2:47:43PM BKR07543.S0
Efficiency Calibration Aug/6/2003 3:20:01PM BKR08066.S0
Isotope Library NORDION.LIB Aug/12/2002 11:30:02AM

ROI STATISTICS INFORMATION in BKR10133.S0

ROI (#)	Error	Centroid keV	FWHM keV	FWTM keV	FWTM/FWHM ratio	H/L ratio
1	2000.00 %	661.68				
2	2000.00 %	724.22				
3	2000.00 %	756.73				
4	66.67 %	764.67	0.25	3.92	15.80	8.900/6.900
5	103.07 %	1172.89	0.27	2.13	7.90	4.936/3.633
6	37.80 %	1332.39	0.66	1.97	2.98	2.848/5.102

Errors Quoted at 2 Sigma

ACTIVITY INFORMATION for BKR10133.S0

Name	Energy keV	Activity Flag	nCi	Error nCi
Co-60	1173.23	* <	0.03010	± 0.0008412
Co-60	1332.51	*	0.04604	± 0.01745
Weighted Average			0.04604	± 0.01745
Cs-137	661.62	* <	0.02221	± 0.0005087
Nb-95	765.82	*	0.009194	± 0.006134
Zr-95	724.18	* <	0.04746	± 0.001121
Zr-95	756.72	* <	0.04751	± 0.001139
Grand Total			0.05523	± 0.0185

Activity (nCi) at May/31/2005 4:11:41PM
Errors Quoted at 2 Sigma
MDA's Quoted at 1.645 Sigma

Flags	Meaning
*	Forced MDA from identification
<	MDA value

Jay Chupick
050607

RSO, Inc.
Report of Sample Analysis

Job: CFC Logistics Irradiation

Job No.: 2005-554

Sample Analysis: HPGe Gamma Spectroscopy

Equipment: RSO HPGe
Canberra Genie 2000
Spectroscopy Software

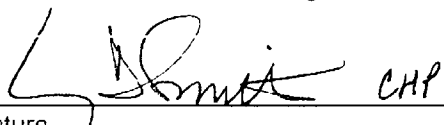
Analysis Date(s): 5/31/2005

Report Date: 5/31/2005

Sample ID	Count Time (minutes)	Sample Size	Sample Matrix	Co-60 Activity Concentration pCi/g	Co-60 MDC pCi/g	Comment
1	15	687 g (Dry Weight)	Filter	< MDC	0.10	
2	15	617 g (Dry Weight)	Filter	< MDC	0.01	
3	15	221 g (Dry Weight)	Filter	< MDC	0.23	
4	15	27 g	Filter	< MDC	1.70	
5	15	53 g	Filter	< MDC	0.67	

Error term shown is counting error only at the 2 sigma confidence level.

Prepared by:  5/31/05
Signature David Bisson, Manager Radiation Safety Services Date

Reviewed by:  L. Smith 5/31/05
Signature CHP Date

Att David Bissen



CHAIN OF CUSTODY / SAMPLE INFORMATION FORM

5204 Minnick Road • Laurel, Maryland 20707 • 301-953-2482 • 410-792-7444 • FAX 301-498-3017

NAME: <i>Luke Tranger/CFC Logistics</i>		CONTRACT/P.O. NUMBER: <i>61345</i>	(LAB USE ONLY)
ADDRESS: <i>4000 AM DRIVE</i>		SAMPLE TURNAROUND TIME: <i>1 week</i>	LAB CONTROL #:
<i>Greentown PA 18951</i>		PROJECT NAME/#: <i>Decommissioning</i>	REVIEWED BY:
CONTACT: <i>Luke Tranger</i>		COMMENTS:	SAMPLER: <i>[Signature]</i>
PHONE: <i>215-529-9522</i>	FAX: <i>215-529-9512</i>		

SAMPLE ID	SAMPLE LOCATION	MATRIX	CONTAINER DESCRIPTION	# of CONTAINERS	DATE	TIME	ANALYSIS REQUIRED/COMMENTS
<i>1</i>	<i>Water filter 1</i>						<i>San Co. CD-60</i>
<i>2</i>	<i>water filter 2</i>						<i>"</i>
<i>3</i>	<i>water filter 3</i>						<i>"</i>
<i>4</i>	<i>Air filter Red</i>						<i>"</i>
<i>5</i>	<i>Air filter Brown</i>						<i>"</i>
							<i>"</i>

TRANSFERRED BY: <i>[Signature]</i>	RECEIVED BY: <i>R Timmons @ RSO Inc</i>	DATE <i>5/23/05</i>	TIME <i>10:05</i>	REMARKS:
TRANSFERRED BY:	RECEIVED BY:	DATE	TIME	
TRANSFERRED BY:	RECEIVED BY:	DATE	TIME	

May 31 05 02:50P



Radiation Service Organization

June 6, 2005

Luke Trauger
CFC Logistics
4000 AM Drive
Quakertown, PA 18951

Re: Gamma Spectrum Analysis of Air and Water Filters

Dear Mr. Trauger,

RSO is please to provide you with the gamma spectrum analysis for the filter samples that was received by our lab on 5/23/05 (RSO job number 2005-554).

Method

The gamma spectrum analysis was conducted by using RSO's high purity germanium counting system. A NIST traceable mixed gamma standard in a 500-ml marinelli beaker configuration was used for both the energy and efficiency calibration of the counting system. Each filter was placed directly on top of the detector and a 15 minute gamma spectrum was collected. The gamma spectrum was analyzed by using Canberra Genie 2000 spectroscopy software and was compared to a library comprised of naturally occurring isotopes and other common isotopes (which included Co-60).

Results

See enclosed report of sample analysis.

Conclusions

In all five spectrums, no gamma lines were identified. For each spectrum, the Genie 2000 spectroscopy software calculated the minimum detectable concentration (MDC) values for each isotope in the library using the spectral data for each sample and the efficiency calibration. The Co-60 MDCs were reported on the enclosed analysis report. These sample results could be used as an indirect leak test. The results should provide reasonable assurance that none of the Co-60 sources had leaked any more than 0.005 uCi out of the system. This assurance can be based on the sensitivity of this analysis reflected in the MDCs, the volume of air or water that passed through the filters and the efficiency of the filters for collection of Co-60 contaminants. Since the activity concentrations in all five sample were below the stated MDC values, the total activates in each would be at least an order of magnitude less that the 0.005 uCi leak test limit.

Thank you for this opportunity to be of service. If you have any questions please do not hesitate to contact me.

Sincerely,

David Bisson, CHP
Manager, Radiation Safety Services

Enclosures

DB
Washington (301) 953-2482

P.O. Box 1450, Laurel, Maryland 20725-1450
Fax (301) 498-3017

Baltimore (410) 792-7444

Irradiator Decommissioning Survey

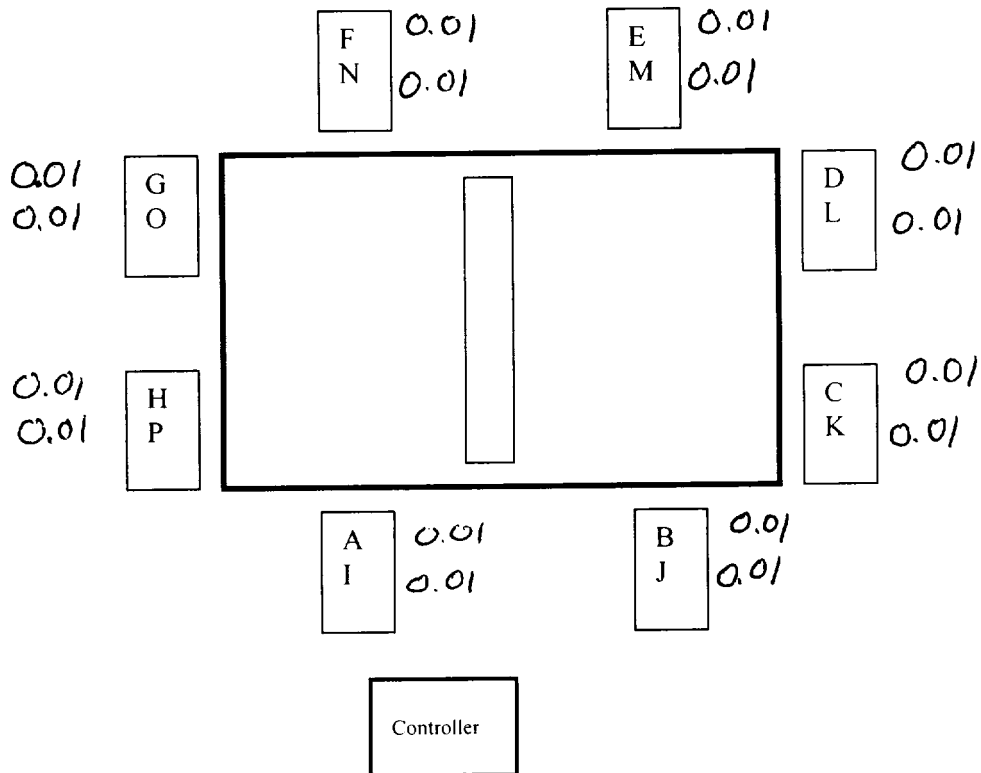
Meter Model # 3 ^{Lullum} Probe Model # 44-38
Meter SN 193879 Probe SN PR 198897
Calibration Date: 3/2/05 Due: 3/2/06

Background Reading: 0.01 mR/hr

Name: Luke Trauger
Sign / Date: [Signature] 6/6/05

A - H: Pool Rim
I - P: Pool Bottom

All Readings in mR/hr.



RSO, Inc.
P.O. Box 1450
Laurel, MD 20725
(301) 953-2482

RSO Job No. 5577

Certificate of Calibration

ISSUED TO: CFC Logistics
4000 AM Drive
Quakertown, PA 18951

INSTRUMENT: LUDLUM
MODEL: 3
TYPE: RATEMETER
SN: 193879

CONTACT: Luke Trauger
PHONE: (215) 529-9512

PO NO:

RSO, Inc. certifies that on 03/07/2005 the above described instrument was calibrated in a known radiation field using 137 Cs (662 keV) beam calibrator (J.L. Shepherd Model 28-6A, S/N 10056). Electronically pulsed using Ludlum 500, S/N 24781.

The results are tabulated below. Calibration is traceable to NIST.

Calibration Data

	RANGE	EXPECTED	OBSERVED	C.F.
X	0.1	0.05 0.15	0.05 * mR/hr 0.15 * mR/hr	1.00 1.00
X	1	0.6 1.5	0.6 mR/hr 1.5 mR/hr	1.00 1.00
X	10	5 15	5 mR/hr 15 mR/hr	1.00 1.00
X	100	50 150	46 mR/hr 150 mR/hr	1.09 1.00

C.F. AVERAGE 1.01

* Electronically pulsed.

Probe type(s) Probe1: SWGM

Probe2:

Probe3:

MODEL	SER#	WINDOW	GEOMETRY	VOLT	ISOTOPE 1 EFF.(%)	ISOTOPE 2 EFF.(%)	ISOTOPE 3 EFF.(%)	ISOTOPE 4 EFF.(%)
44-38	PR198897	CLOSED	PERPEND.	900				

INSTRUMENT CHECKS

1 mR/hr CHECK: N/A
BATTERY CHECK: NORMAL
CHECK SOURCE 1: N/A READING:
CHECK SOURCE 2: N/A READING:

ENVIRONMENTAL

TEMP: 20°C
PRESS: 754 mmHg
HUMID: 38 %

THE SUGGESTED RECALIBRATION DATE FOR THIS INSTRUMENT IS 03/07/2006

Calibrated By: Richard Emmons
Richard Emmons

Reviewed By: [Signature]

Cal Date: 03/07/2005

Maryland License MD-33-021-01

11629