

Princeton University Environmental Health and Safety

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L-H MS-14

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То:	Farrah Gasskins	From	: Sue Dupre			
Fax:	610-337-5269	Pages	: 3			
Phone:	610-337-5143	Date:	10-29-08			
Re:	Mail Control #142770 (leak test record for Gammacell-40)					
□ Urge	ent 🔲 For Review	☐ Please Comment	☐ Please Reply	☐ Please Recycle		
• Com	nents:					
Ms. Gas	sskins,					

This is in reference to Mail Control No. 142770. Attached to this cover sheet is a record of a leak test performed by David Pyefinch of Best Theratronics for the Gammacell-40 irradiator shipped from Princeton University on August 12, 2008.

Please let me know if you have any questions about this fax or about the shipment. I can be reached at 609-258-6252 or at dupre@princeton.edu.

Sue Dupre

University Health Physicist, Princeton University

ROUTINE WIPE TEST FOR CONTAMINATION AND LEAK TEST FORM				
447 March Road	, Kanata, Ontario, Canada K2K 1X8. Telephone: (6	13) 592-2790 Telefax: (613) 591-6815		
Customer Information	_			
Order No. 10586	Customer Name PRINCOTOR	DULUGAE FY		
Customer's Location	PRINCETON N.J.			
		initial all boxes		
Irradiator Type: 6040	(e.g. JS-8900, GC-3000) Serial Number 0093	Radiation Source Type: 60Co L, or 137Cs		
Wipe Test Details				
Wipe Test Performed on:		2. Source Tests		
ļ	Surface of Transport Package	Underwater Source		
	☐ Plug and Cavity of Transport Package	83-Category I & II Irradiators		
		Source Handling Tools		
		OTHER (Specify)		
F168 S/N F430 4 (FU30H9			
Description of Procedure U	Jscd: Initial One or more: U J-Cloth Filter Pap	per Styrofoam Other:		
	Initial One or more: 🔲 Wet Wipe 🛣 Dry Wipe	e 🔲 Other: 🗀 Fuel Filter		
Survey Meter Details and				
•	lodel: Bicron Surveyor 2000, with Pancake Probe	Other (Specify)		
	356' Calibration Expiry Date: 16 July 20			
Pancake Probe S.N.: 001		<u>-</u>		
1. Surface Tests				
Wipe Test Results: No further action is required. Retain all wipes for further testing.				
	itive. Contamination ≥ 0.4 Bq/cm². Outline initial contamination	orrective action on this form. Follow relevant		
Instrument Conversion Factor: Source Tests Compared to the property of the pr				
Background Reading: Gross Wipe Reading: Net Wipe Reading:		ion I, or II.		
2. Source Tests				
(I) Measured Removable C	Contamination = Net Wipe Reading (cpm) x 5 nCi	nCi Cobalt – 60		
(II) Measured Removable C	Contamination = $\frac{\text{Not Wipe Reading (cpm)} \times 5 \text{ nCi}}{\sqrt{G \text{ Cpm}}} = \cancel{1}$	∑_nCi Cesium – 137		
	gative. Contamination < 5 nCi. No further action is a sitive. Contamination ≥ 5 nCi. Outline initial correct			
		· ·		

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				
☐ 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 the Detection of Radioactive Surface Contamination for Category I and II Irradiators				
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				
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				
5. 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 Daord Rychine (Name) (Signature) Sommer Res? (Title) 12 466 2008 (Date)				
Sonver Res? (Title) 12 466 ZOOK (Date)				
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