## Full Report

## Item Number: 110110

## Last Updated: 02/22/2011

11/01/2011

#### Narrative:

The Cleveland Clinic Foundation reported identifying a leaking small acrylic 9.25 MBq (250 uCi) Co-57 spot source (Eckert & Ziegler model RFQ-948-057-250U, serial #1289-117-2). No visible damage was observed, but 3.59 kBq (0.097 uCi) was recovered from a wash test subsequent to a wipe test. The source was removed from service pending disposal. Radiation surveys of the use area revealed no contamination. The source was properly packaged and placed into safe storage. The source was returned to the manufacturer.

Event Date:	02/03/201	1	Date	Repor	ted to	Agreement State:	02/04/2011
Discovery Date:	02/03/201	1	Date	e Repor	ted to	NRC:	02/07/2011
Licensee/Reporting	g Party Info	rmation:					
Agreement State F	Regulated: Y	′S		Recip	ocity:	NONE	
License Number:	C	DH-02110180013		Name		CLEVELAND CLIN	NIC FOUNDATION
NRC Docket Numb	ber: N	A		City:		CLEVELAND	
NRC Program Cod	le: N	A		State:	ОН	Zip Code: 44195	
Responsible NRC	Region: 3	i				•	
Site of Event:							
Site Name: CLEV	'ELAND			State:		OH	
Additional Involved	l Party:						
License Number:	N	A		Name		NA	
NRC Docket Numb	per: N	IA		City:		NA	
NRC Program Cod	le: N	IA		State:	NA	Zip Code: NA	
Responsible NRC	Region: N	IA	•				
Other Information:							
NRC Reportable E	vent:	Y		Abnor	mal O	ccurrence:	Ν
Agreement State F	Reportable E	vent: Y		Investi	gatio	n:	N
Atomic Energy Act	Material:	Y		NMED	Reco	ord Complete:	Y
Consultant Hired:		N		Event	Close	d by Region/State:	Y

## Event Type:

EQP - EQUIPMENT LKS - LEAKING SOURCE Event Cause: EQP Cause: DEFECTIVE OR FAILED PART

## LKS

Cause: DEFECTIVE OR FAILED PART

## Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: NA LKS

IAEA Aggregate Category: NA

## **Corrective Actions Information:**

Action Number: Corrective Action:

EQP

1 EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL

LKS

EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL

## 1 EC

Reference	Entry Date:	Retraction	Type of Report:			
References:						
REVISED BYPRODUCT N	/ATERIAL I	DEFINITION				
LKS						
REVISED BYPRODUCT N	ATERIAL I	DEFINITION				
EQP						
Keywords:						
Reporting Requirement:	35.67(e) - N radioactive	Medical source le material.	eak test revealed	the presence of 185 Bq (0.0	005 uCi) or more of rem	ovable
LKS						
Reporting Requirement:	30.50(b)(2)	- Equipment is	disabled or fails to	o function as designed.		
EQP						
Reporting Requirements:						
Serial Number:	1289-1	17-2		Leak Test Result:	0.09696 uCi	3.58752 kBq
Model Number:	RFQ-94	48-057-250U		IAEA Category:	NA	
Manufacturer:	ECKEF	RT & ZIEGLER		Activity:	0.00025 Ci	0.00925 GBq
Source/Radioactive Mater	ial: SEALE	D SOURCE CA	LIB/MARKER	Radionuclide:	CO-57	
LKS Source Number: 1						
Serial Number:	1289-1	17-2				
Model Number:	RFQ-9	48-057-2500		IAEA Category:	NA	
Manufacturer:	ECKEF	RT & ZIEGLER		Activity:	0.00025 Ci	0.00925 GBq
Source/Radioactive Mater	ial: SEALE	D SOURCE CA	LIB/MARKER	Radionuclide:	CO-57	
Source Number: 1						

Reference	Entry	Retraction	Type of
Number:	Date:	Date:	Report:
OH110002	02/22/2011		AGREEMENT STATE EVENT REPORT

#### Last Updated: 02/22/2011

## Narrative:

Barnesville Hospital reported a leaking 6.75 MBg (182.5 uCi) Cs-137 source (North American Scientific model E-Vial, serial #16705). The source was wiped for removable contamination over its entire surface with absorbent filter paper on 12/23/2010. The wipe was found to be contaminated, with a count rate approximately 20 times background. Additional wipes were taken of the exterior of the source and the interior and exterior of the source container. Those wipes revealed additional contamination. The wipe test of the source revealed 410,433 dpm, or 6.84 kBg (0.185 uCi). The surface wipe test of the interior of the source container revealed 226,808 dpm, or 3.78 kBg (0.102 uCi). Close examination of the source revealed a small puncture near the source's label. The source was placed back into its container, which was then taped shut and placed into a plastic bag. The bag was sealed, labeled, and placed behind lead bricks in the radioactive material storage area of the nuclear medicine department hot laboratory. The hospital returned the source to the manufacturer on 2/7/2011 for proper disposal. A new Cs-137 source will be purchased.

Event Date:	12/23/2010		Date Reported	to Agreement State:	12/24/2010	
Discovery Date:	12/23/2010		Date Reported	to NRC:	12/27/2010	
Licensee/Reporting	Party Informa	tion:				
Agreement State R	egulated: YS		Reciproc	ity: NONE		
License Number:	OH-	02121070000	Name:	BARNESVILLE H	DSPITAL	
NRC Docket Numb	er: NA		City:	BARNESVILLE		
NRC Program Cod	e: NA		State: C	H Zip Code: 43713		
Responsible NRC I	Region: 3					
Site of Event:						
Site Name: BARN	ESVILLE		State:	ОН		
Additional Involved	Party:		•			
License Number:	NA		Name:	NA		
NRC Docket Numb	er: NA		City:	NA		
NRC Program Cod	e: NA		State: N	A Zip Code: NA		
Responsible NRC I	Region: NA					
Other Information:						
NRC Reportable Ev	vent:	Y	Abnorma	I Occurrence:	N	
Agreement State R	eportable Even	it: Y	Investiga	tion:	Ν	
Atomic Energy Act	Material:	Y	NMED R	ecord Complete:	Y	
Consultant Hired:		Ν	Event Clo	osed by Region/State:	Y	
Event Type:				** <del>*</del> ***	· · · · · · · · · · · · · · · · · · ·	·

**EQP - EQUIPMENT** LKS - LEAKING SOURCE Event Cause: EQP MECHANICAL IMPACT Cause: LKS MECHANICAL IMPACT Cause: Event IAEA Aggregate Category: EQP IAEA Aggregate Category: 5 LKS IAEA Aggregate Category: 5 **Corrective Actions Information:** Action Number: Corrective Action: EQP EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL 1

LKS

EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL

1 Source of Radiation:

Source Number: 1				
Source/Radioactive Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.0001825 Ci	0.0067525 GBq
Model Number:	E-VIAL	IAEA Category:	5	
Serial Number:	16705			
LKS				
Source Number: 1				
Source/Radioactive Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.0001825 Ci	0.0067525 GBq
Model Number:	E-VIAL	IAEA Category:	5	
Serial Number:	16705	Leak Test Result:	0.185 uCi	6.845 kBq
Reporting Requirements:				
EQP				
Reporting Requirement: 30.	50(b)(2) - Equipment is disabled or fails to	function as designed.		
IKS				

Reporting Requirement: 35.67(e) - Medical source leak test revealed the presence of 185 Bq (0.005 uCi) or more of removable radioactive material.

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## References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
OH100029	01/12/2011		AGREEMENT STATE EVENT REPORT
OH100029A	02/22/2011		AGREEMENT STATE EVENT REPORT

## Narrative:

Isotope Products Laboratories (IPL) reported that a damaged dose calibration vial (North American Scientific model MED3550, serial #12575), which contained 9.25 MBq (250 uCi) of Cs-137, was returned to them by Radiology Regional Center (RRC). Upon arrival at IPL, the vial was observed to be damaged with an apparent crack. The source was leak tested on 8/20/2010, which revealed approximately 185 Bq (0.005 uCi). The vial was leak tested again on 8/27/2010, which revealed approximately 481 Bq (0.013 uCi). IPL investigated the root cause with the help of RRC. A Health and Human Services Agency inspector visited IPL on 9/7/2010 to perform an onsite investigation. The Florida Department of Health was notified. RRC suspects that the vial was mishandled by their personnel, causing the crack. The source was disposed of as radioactive waste by IPL.

Event Date:	08/27/20	10	Date	e Reported t	o Agreement State:	08/31/2010
Discovery Date:	08/27/20	10	Date	e Reported to	D NRC:	09/09/2010
Licensee/Reporting I	Party Inf	ormation:				
Agreement State Re	gulated:	YS		Reciprocity	: NONE	
License Number:		CA-1509-19		Name:	ISOTOPE PRODU	ICTS LABORATORIES
NRC Docket Numbe	r:	NA		City:	BURBANK	
NRC Program Code	:	NA		State: CA	Zip Code: 91504	
Responsible NRC R	egion:	4				
Site of Event:						
Site Name: BURBA	NK			State:	CA	
Additional Involved F	Party:					
License Number:		FL-2923-4		Name:	RADIOLOGY REG	GIONAL CENTER
NRC Docket Numbe	r:	NA		City:	LEHIGH ACRES	
NRC Program Code:	:	NA		State: FL	Zip Code: 33972	
Responsible NRC R	egion:	1				
Other Information:						
NRC Reportable Eve	ent:	Y		Abnormal C	Occurrence:	N
Agreement State Re	portable	Event: Y		Investigatio	n:	Y
Atomic Energy Act N	laterial:	Y		NMED Rec	ord Complete:	Y
Consultant Hired:		N		Event Close	ed by Region/State:	Y

## Event Type:

EQP - EQUIPMENT LKS - LEAKING SOURCE Event Cause: EQP Cause: MECHANICAL IMPACT LKS MECHANICAL IMPACT Cause: Event IAEA Aggregate Category: EQP IAEA Aggregate Category: 5 LKS IAEA Aggregate Category: 5 **Corrective Actions Information:** Action Number: Corrective Action: EQP 1 MATERIAL DISPOSED OF AS WASTE LKS MATERIAL DISPOSED OF AS WASTE 1

## Source of Radiation:

Source Number: 1				
Source/Radioactive Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.00025 Ci	0.00925 GBq
Model Number:	MED3550	IAEA Category:	5	
Serial Number:	12775			
LKS				
Source Number: 1				
Source/Radioactive Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.00025 Ci	0.00925 GBq
Model Number:	MED3550	IAEA Category:	5	
Serial Number:	12775	Leak Test Result:	0.013 uCi	0.481 kBq
Reporting Requirements:				
EQP				

Reporting Requirement: 30.50(b)(2) - Equipment is disabled or fails to function as designed.

## LKS

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Reporting Requirement: 35.67(e) - Medical source leak test revealed the presence of 185 Bq (0.005 uCi) or more of removable radioactive material.

## References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA1527	09/27/2010		AGREEMENT STATE EVENT REPORT
- CA-083110	09/27/2010		Same as CA-XCA1527
LTR110104	01/04/2011		AGREEMENT STATE LETTER
FL10-097	02/08/2011		AGREEMENT STATE EVENT REPORT
LTR110516	06/06/2011		AGREEMENT STATE LETTER

## Last Updated: 02/02/2011

## Narrative:

The Radiology Regional Center reported a leaking Cs-137 vial source (North American Scientific model MED3550, serial #12574) that contained an activity of 9.22 MBq (249.2 uCi). The leak test revealed a removable activity of 10,656 Bq (0.288 uCi). Previous leak tests revealed no removable contamination. Radiation surveys of hot laboratory surfaces and personnel were negative. The source was taken out of service and returned to the manufacturer.

Event Date: 0	5/25/2010		Date Reported to	o Agreement State:	05/25/2010	
Discovery Date: 0	5/25/2010		Date Reported to	0 NRC:	05/26/2010	
Licensee/Reporting Pa	arty Informati	on:				
Agreement State Reg	ulated: YS		Reciprocity	: NONE		
License Number:	FL-292	23-4	Name:	RADIOLOGY REG	IONAL CENTER	
NRC Docket Number:	NA		City:	FORT MYERS		
NRC Program Code:	NA		State: FL	Zip Code: 33972		
Responsible NRC Reg	gion: 1					
Site of Event:						
Site Name: FORT M	YERS		State:	FL		
Additional Involved Pa	arty:					
License Number:	NA		Name:	NA		
NRC Docket Number:	NA		City:	NA		
NRC Program Code:	NA		State: NA	Zip Code: NA		
Responsible NRC Reg	gion: NA					
Other Information:						
NRC Reportable Ever	nt:	Y	Abnormal C	Occurrence:	Ν	
Agreement State Rep	ortable Event:	Υ	Investigatio	n:	Y	
Atomic Energy Act Ma	aterial:	Y	NMED Rec	ord Complete:	Y	
Consultant Hired:		N	Event Close	ed by Region/State:	Y	

Event Type:

EQP - EQUIPMENT

LKS - LEAKING SOURCE Event Cause:

## EQP

Cause: DEFECTIVE OR FAILED PART

## LKS

Cause: DEFECTIVE OR FAILED PART

## Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: 5

LKS

IAEA Aggregate Category: 5

## **Corrective Actions Information:**

Action Number: Corrective Action: EQP

## 1 EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL

EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL

LKS

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## Source of Radiation:

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Source Number: 1				
Source/Radioactive Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.0002492 Ci	0.0092204 GBq
Model Number:	MED3550	IAEA Category:	5	
Serial Number:	12574			

LKS				······································			
Source Number:	1						
Source/Radioactive Mate Manufacturer:	rial: SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137	0.0000004.00-			
Model Number:	MED3550	IAEA Category:	5	0.0092204 GBq			
Serial Number:	12574	Leak Test Result:	0.288 uCi	10.656 kBq			
Reporting Requirements:							
Reporting Requirement:	30.50(b)(2) - Equipment is disabled or fails to	o function as designed.					
LKS							
Reporting Requirement:	35.67(e) - Medical source leak test revealed radioactive material.	5.67(e) - Medical source leak test revealed the presence of 185 Bq (0.005 uCi) or more of removable adioactive material.					
Deferences	•						

#### References:

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Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN45956	06/01/2010		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR100909	09/16/2010		AGREEMENT STATE LETTER
FL10-069	02/02/2011		AGREEMENT STATE EVENT REPORT

## Narrative:

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Cardinal Health reported a leaking calibration source (Lantheus Medical Imaging model NES-356, serial #3600-978A1) that contained 7.81 MBq (211 uCi) of Cs-137 (calibrated on 9/25/1978). The leak test performed on 3/10/2010 revealed 373.15 Bq (0.01 uCi) and was the result of a crack in the lid of the sealed source container. The source was removed from service and the crack was sealed with epoxy. The leak test was repeated and results revealed less than 185 Bq (0.005 uCi). The source will be returned to the manufacturer for disposal.

Event Date:	ent Date: 03/10/2010 Date Reported to Agreement State:			Agreement State:	03/15/2010		
Discovery Date:	03/10/2010		Date F	Report	ed to	NRC:	03/30/2010
Licensee/Reporting	Party Informati	on:					•
Agreement State R	egulated: YS		F	Recipro	city:	NONE	
License Number:	MD-33	3-198-01	Ν	lame:		CARDINAL HEALT	ТН
NRC Docket Numb	er: NA		C	City:		BELTSVILLE	
NRC Program Code	e: NA		s	State:	MD	Zip Code: 20705	
Responsible NRC F	Region: 1						
Site of Event:							
Site Name: BELTS	VILLE		S	state:		MD	
Additional Involved	Party:						
License Number:	NA		N	lame:		NA	
NRC Docket Numbe	er: NA		C	City:		NA	
NRC Program Code	e: NA		S	State:	NA	Zip Code: NA	
Responsible NRC F	egion: NA						
Other Information:							
NRC Reportable Ev	ent:	Y	A	bnorn	nal O	ccurrence:	Ν
Agreement State Re	eportable Event:	Y	Ir	nvestig	atior	n: •	Ν
Atomic Energy Act I	Material:	Y	Ν	IMED	Reco	ord Complete:	Y
Consultant Hired:		Ν	E	vent C	lose	d by Region/State:	Y
Event Type:	·						
EQP - EQUIPMENT							
LKS - LEAKING SOU	RCE						
Event Cause:							
EQP							
Cause: DEFEC	TIVE OR FAILE	D PART					
IKS							

Cause: DEFECTIVE OR FAILED PART

Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: 5

LKS

IAEA Aggregate Category: 5

## **Corrective Actions Information:**

Action Number: Corrective Action:

EQP

## 1 EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL

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LKS
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## EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL

# 1 EG

EQP

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	LANTHEUS MED. IMAG.	Activity:	0.000211 Ci	0.007807 GBq
Model Number:	NES-356	IAEA Category:	5	
Serial Number:	3600-978A1			

LKS						
Source Number:	1					
Source/Radioactive Mate	erial: SEALE	D SOURCE CA	ALIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	LANTH	EUS MED. IMA	AG.	Activity:	0.000211 Ci	0.007807 GBq
Model Number:	NES-35	6		IAEA Category:	5	·
Serial Number:	3600-97	78A1		Leak Test Result:	0.010085 uCi	0.373145 kBq
Reporting Requirements:						
Reporting Requirement:	30 50/h)(2)	- Fouinment is	disabled or fails to	function as designed		
repensing requirement.	30.30(0)(2)			function as acsigned.		
LKS					×	
Reporting Requirement:	nt: 35.67(e) - Medical source leak test revealed the presence of 185 Bq (0.005 uCi) or more of removable radioactive material.					
References:						
Reference Number:	Entry Date:	Retraction Date:	Type of Report:			
MD100007	04/12/2010		AGREEMENT S	TATE EVENT REPORT		

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## Last Updated: 06/17/2010

## Narrative:

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Prince George's Hospital Center reported a leaking 185 MBq (5 mCi) Co-57 calibration source (North American Scientific model MED3550, serial #106472). The source was discovered leaking on 8/13/2009 with leak test results of 259 Bq (0.007 uCi). It was taken out of service and relevant areas were checked for contamination. The source was appropriately contained and controlled and placed in decay and storage at the Hospital's facility.

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Event Date:	08/13/2009	Date	e Reported to	Agreement State:	08/14/2009
Discovery Date:	08/13/2009	Date	e Reported to	NRC:	03/30/2010
Licensee/Reporting	Party Information	on:			
Agreement State R	egulated: YS		Reciprocity:	NONE	
License Number:	MD-33	3-003-01	Name:	PRINCE GEORGE	'S HOSPITAL CENTER
NRC Docket Numb	er: NA		City:	CHEVERLY	
NRC Program Code	e; NA		State: MD	Zip Code: 20785	
Responsible NRC F	Region: 1				
Site of Event:					
Site Name: CHEV	ERLY		State:	MD	
Additional Involved	Party:				
License Number:	NA		Name:	NA	
NRC Docket Numb	er: NA		City:	NA	
NRC Program Code	e: NA		State: NA	Zip Code: NA	
Responsible NRC F	Region: NA				
Other Information:					
NRC Reportable Ev	vent:	Y	Abnormal O	ccurrence:	Ν
Agreement State R	eportable Event:	Y	Investigatio	n:	Ν
Atomic Energy Act	Material:	Y	NMED Reco	ord Complete:	Y
Consultant Hired:		N	Event Close	d by Region/State:	N

## Event Type:

EQP - EQUIPMENT LKS - LEAKING SOURCE Event Cause:

## EQP

Cause: DEFECTIVE OR FAILED PART

#### LKS

Cause: DEFECTIVE OR FAILED PART

## **Event IAEA Aggregate Category:**

EQP

IAEA Aggregate Category: NA LKS

IAEA Aggregate Category: NA

## **Corrective Actions Information:**

Action Number: Corrective Action: EQP 1 MATERIAL DISPOSED OF AS WASTE LKS

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1 MATERIAL DISPOSED OF AS WASTE

#### Source of Radiation:

EQP

Source Number:

Source/Radioactive Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	CO-57	
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.005 Ci	0.185 GBq
Model Number:	MED3550	IAEA Category:	NA	
Serial Number:	106472			

LKO				
Source Number: 1				
Source/Radioactive Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	CO-57	
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.005 Ci	0.185 GBq
Model Number:	MED3550	IAEA Category:	NA	
Serial Number:	106472	Leak Test Result:	0.007 uCi	0.259 kBq
Reporting Requirements:				
EQP				
Reporting Requirement: 30.	50(b)(2) - Equipment is disabled or fails to	o function as designed.		
LKS				

Reporting Requirement: 35.67(e) - Medical source leak test revealed the presence of 185 Bq (0.005 uCi) or more of removable radioactive material.

## Keywords:

EQP

RÉVISED BYPRODUCT MATERIAL DEFINITION

LKS

**REVISED BYPRODUCT MATERIAL DEFINITION** 

## **References:**

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
MD100004	04/12/2010		AGREEMENT STATE EVENT REPORT
LTR100615	06/17/2010		AGREEMENT STATE LETTER

## Last Updated: 07/20/2009

## Narrative:

Marshalltown Medical & Surgical Center (MMSC) reported a leaking 5.62 MBq (151.8 uCi) Cs-137 vial source (Amersham model RV-137-200U, serial #524-139). The vial source was used to calibrate their dose calibrator. The leakage was identified by a consultant during a sixmonth leak test. The test revealed 962 Bq (0.026 uCi) of removable radioactive contamination. The source was immediately taken out of service and a radiation survey of the hot laboratory, in particular the dose calibrator, was conducted. The dose calibrator syringe dipper was identified as contaminated and removed from service. The vial source and syringe dipper were sealed in a plastic bag and placed in the waste storage area. MMSC contacted EnergySolutions to dispose of the source. The source was picked up by Bionomics on 6/26/2009 for delivery to EnergySolutions.

Event Date:	05/03/2009		Date	Date Reported to Agreement State:			05/28/2009	
Discovery Date:	05/03/2009		Date	Date Reported to NRC:		NRC:	06/03/2009	
Licensee/Reporting	Party Info	rmatio	n:					
Agreement State Re	egulated: N	rs			Recipro	ocity:	NONE	
License Number:	l	A-005	3164M1		Name:		MARSHALLTOWN	MEDICAL & SURGICAL CENTER
NRC Docket Numbe	er: M	٨N			City:		MARSHALLTOWN	
NRC Program Code	e: 1	٨N			State:	IA	Zip Code: 50158	
Responsible NRC R	Region: 3	3						
Site of Event:								
Site Name: MARSH	HALLTOW	N			State:		IA	
Additional Involved	Party:							
License Number:	١	A			Name:		NA	
NRC Docket Numbe	er: N	A			City:		NA	
NRC Program Code	): N	A			State:	NA	Zip Code: NA	
Responsible NRC R	legion: N	A						
Other Information:								
NRC Reportable Ev	ent:		Y		Abnorn	nal O	ccurrence:	Ν
Agreement State Re	portable E	vent:	Y		Investig	gation	1:	Y
Atomic Energy Act M	Material:		Y		NMED	Reco	rd Complete:	Y
Consultant Hired:			Y		Event (	Close	d by Region/State:	Y

## Event Type:

EQP - EQUIPMENT

LKS - LEAKING SOURCE

## Event Cause:

EQP

Cause: DEFECTIVE OR FAILED PART

## LKS

Cause: DEFECTIVE OR FAILED PART

## Event IAEA Aggregate Category:

EQP IAEA Aggregate Category: 5 IAEA Aggregate Category: 5

## **Corrective Actions Information:**

Action Number: Corrective Action:

EQP

1 MATERIAL DISPOSED OF AS WASTE

LKS

1 MATERIAL DISPOSED OF AS WASTE

## Source of Radiation:

Source Number: 1				
Source/Radioactive Materia	al: SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	AMERSHAM	Activity:	0.0001518 Ci	0.0056166 GBq
Model Number:	RV-137-200U	IAEA Category:	5	
Serial Number:	524-139		· .	
LKS				
Source Number: 1				
Source/Radioactive Materia	al: SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	AMERSHAM	Activity:	0.0001518 Ci	0.0056166 GBq
Model Number:	RV-137-200U	IAEA Category:	5	
Serial Number:	524-139	Leak Test Result:	0.026 uCi	0.962 kBq
Reporting Requirements:				
EQP				
Reporting Requirement: 3	30.50(b)(2) - Equipment is disabled or fails to	function as designed.		
LKS				
Reporting Requirement: 3	35.67(e) - Medical source leak test revealed adioactive material.	the presence of 185 Bq (0.	005 uCi) or more of re	movable

## **References:**

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
IA090001	06/18/2009		AGREEMENT STATE EVENT REPORT
IA090001A	06/18/2009		AGREEMENT STATE EVENT REPORT
LTR090714	07/14/2009		AGREEMENT STATE LETTER
LTR090717	07/20/2009		AGREEMENT STATE LETTER

## Narrative:

CAMC Teays Valley Hospital reported that a Cs-137 calibration source (DuPont/NEN model E-Vial, serial #10866-32) was leaking. The source contained an original activity of 7.36 MBq (199 uCi) on 11/1/1983. On the date of the leak test, 11/28/2007, the activity of the source was 4.22 MBq (114 uCi). The source is in storage behind the L-block in the hospital nuclear medicine department. Disposal options are being investigated.

Event Date:	11/28/200	7	Date Reporte	d to Agreement State	e:	
Discovery Date:	11/28/200	7	Date Reporte	d to NRC:	11/29/2007	
Licensee/Reporting	Party Info	mation:				
Agreement State Re	gulated: N	10	Reciproc	city: NONE		
License Number:	4	7-23070-01	Name:	CAMC TEAYS \	ALLEY HOSPITAL	
NRC Docket Numbe	er: C	3020237	City:	HURRICANE		
NRC Program Code	: 0	2120	State: V	NV Zip Code: 2552	6	
Responsible NRC R	egion: 1					
Site of Event:						
Site Name: HURRI	CANE		State:	wv		
Additional Involved I	Party:					
License Number:	Ν	IA	Name:	NA		
NRC Docket Numbe	er: N	IA	City:	NA		
NRC Program Code	: N	IA	State: N	NA Zip Code: NA		
Responsible NRC R	egion: N	IA				
Other Information:						
NRC Reportable Eve	ent:	Y	Abnorma	al Occurrence:	Ν	
Agreement State Re	portable E	vent: N	Investiga	ation:	Ν	
Atomic Energy Act N	/laterial:	Y	NMED F	Record Complete:	Y	
Consultant Hired:		N	Event Cl	losed by Region/Stat	e: Y	
					······································	

## Event Type:

EQP - EQUIPMENT

LKS - LEAKING SOURCE

## Event Cause:

EQP

Cause: DEFECTIVE OR FAILED PART

## LKS

Cause: DEFECTIVE OR FAILED PART

## Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: 5

LKS

IAEA Aggregate Category: 5

## **Corrective Actions Information:**

Action Number: Corrective Action: EQP 1 MATERIAL DISPOSED OF AS WASTE

LKS

1 MATERIAL DISPOSED OF AS WASTE

## Source of Radiation:

Source	Number:	1

Source/Radioactive Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	DUPONT MERCK	Activity:	0.000114 Ci	0.004218 GBq
Model Number:	E-VIAL	IAEA Category:	5	
Serial Number:	10866-32			

<u> </u>				
LKS				
Source Number:	1			
Source/Radioactive Mate	erial: SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	DUPONT MERCK	Activity:	0.000114 Ci	0.004218 GBa
Model Number:	E-VIAL	IAEA Category:	5	
Serial Number:	10866-32	Leak Test Result:	NR uCi	NR kBq
Reporting Requirements: EQP				
Reporting Requirement:	30.50(b)(2) - Equipment is disabled or fails to	function as designed.		
LKS				
Reporting Requirement:	35.67(e) - Medical source leak test revealed radioactive material.	the presence of 185 Bq (0.	005 uCi) or more of rer	novable
References:				
Poforonco	Entry Defineding Truck of			

Number:	Entry Date:	Retraction Date:	Type of Report:
ML073440575	12/18/2007		OTHER
LTR080414	04/16/2008		NRC LETTER

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#### Last Updated: 02/21/2008

## Narrative:

Saint Thomas Cardiology Consultants reported a leaking North American Scientific Cs-137 calibration source (model MED3550, serial #7945) that contained an activity of 7.51 MBq (203 uCi). The source was discovered leaking during a routine leak test, was immediately taken out of service, and was locked in a shielded safe in the hot laboratory. The radioactive contamination was contained in the source vial with minimal contamination on the dose calibrator dipper and chamber. The dose calibrator chamber and dipper were retired from use and stored pending disposal or decontamination. The manufacturer was contacted and agreed to take back the leaking source and contaminated material. The cause appears to be a sharp burr on the inside of the source's storage pig. The burr wore a hole in the side of the vial in the middle of the active area of the source. The pig had been supplied by North American Scientific along with the source. It was estimated that the source had been used at least 1000 times since it was purchased in 2001.

Event Date:	06/29/20	06		Date F	Report	ed to	Agreement State:	06/30/2006
Discovery Date:	06/29/20	06		Date F	Report	ed to	NRC:	07/07/2006
Licensee/Reporting	Party Inf	ormatic	on:					
Agreement State R	egulated:	YS		R	ecipro	city:	NONE	
License Number:		TN-R-1	9234	N	lame:		SAINT THOMAS C	CARDIOLOGY CONSULTANTS
NRC Docket Numb	er:	NA		С	ity:		NASHVILLE	
NRC Program Code	e:	NA		s	tate:	ΤN	Zip Code: 37205	
Responsible NRC F	Region:	1						
Site of Event:								
Site Name: NASH	VILLE			S	itate:		TN	
Additional Involved	Party:							
License Number:		NA		N	lame:		NA	
NRC Docket Numb	er:	NA		С	;ity:		NA	
NRC Program Code	e:	NA		S	tate:	NA	Zip Code: NA	
Responsible NRC F	Region:	NA						
Other Information:								
NRC Reportable Ev	ent:		Y	А	bnorm	al O	courrence:	N
Agreement State R	eportable	Event:	Y	Ir	vestig	atior	:	Y
Atomic Energy Act	Material:		Y	N	IMED	Reco	rd Complete:	Y
Consultant Hired:			Y	E	vent C	lose	d by Region/State:	N

#### Event Type:

**EQP - EQUIPMENT** LKS - LEAKING SOURCE Event Cause: EQP DEFECTIVE OR FAILED PART Cause: Old Cause: DEFECTIVE OR FAILED PARTS LKS Cause: DEFECTIVE OR FAILED PART Old Cause: DEFECTIVE OR FAILED PARTS **Event IAEA Aggregate Category:** EQP IAEA Aggregate Category: 5 LKS IAEA Aggregate Category: 5 **Corrective Actions Information:** Action Number: Corrective Action: EQP EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL 1 LKS EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL 1 Source of Radiation:

Source Number: 1				
Source/Radioactive Mate	rial: SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.000203 Ci	0.007511 GBq
Model Number:	MED3550	IAEA Category:	5	
Serial Number:	7945			
LKS				
Source Number: 1	l			
Source/Radioactive Mate	rial: SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.000203 Ci	0.007511 GBq
Model Number:	MED3550	IAEA Category:	5	
Serial Number:	7945	Leak Test Result:	NR uCi	NR kBq
Reporting Requirements:				
Reporting Requirement:	30.50(b)(2) - Equipment is disabled or fails to	o function as designed.		
LKS				
Reporting Requirement:	35.67(e) - Medical source leak test revealed radioactive material.	the presence of 185 Bq (0.	005 uCi) or more of ren	novable
References:				
Pafaranca	Entry Botraction Type of			

Number:	Date:	Date:	Report:
TN06088	07/19/2006		AGREEMENT STATE EVENT REPORT
TN06088A	02/21/2008		AGREEMENT STATE EVENT REPORT

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## Narrative:

The licensee reported the discovery of a leaking medical source. The source is a glass vial wrapped with clear plastic tape. The vial contains Cs-137 in liquid form (serial #RO3-4483-41-3) with an activity of 555 kBq (15 uCi) on 3/1/1969. The leak was discovered by a technician who, when attempting to use the source, noted a small amount of liquid in the bottom of the metal container that holds the vial. Using a swab, the liquid was sampled and the contamination on the swab was found to be 40,927 dpm (682 Bq; 0.0184 uCi). The licensee removed the source from use and placed it in their permanent waste storage facility pending disposal. No spread of contamination occurred.

Event Date:	02/04/2004		Date Reported to	Date Reported to Agreement State:		
Discovery Date:	02/04/2004		Date Reported to	NRC:	02/04/2004	
Licensee/Reporting	Party Informa	ition:				
Agreement State Re	gulated: NO		Reciprocity:	NONE		
License Number:	37-1	1866-01	Name:	LANCASTER GEN	ERAL HOSPITAL	
NRC Docket Numbe	er: 0300	03151	City:	LANCASTER		
NRC Program Code	e: 0223	30	State: PA	Zip Code: 17603		
Responsible NRC R	egion: 1					
Site of Event:						
Site Name: LANCA	STER		State:	PA		
Additional Involved	Party:					
License Number:	NA		Name:	NA		
NRC Docket Numbe	er: NA		City:	NA		
NRC Program Code	: NA		State: NA	Zip Code: NA		
Responsible NRC R	egion: NA					
Other Information:						
NRC Reportable Ev	ent:	Y	Abnormal C	ccurrence:	Ν	
Agreement State Re	eportable Even	nt: N	Investigation	n:	N	
Atomic Energy Act M	Material:	Y	NMED Reco	ord Complete:	Y	
Consultant Hired:		N	Event Close	d by Region/State:	Y	

## **Event Type:**

EQP - EQUIPMENT LKS - LEAKING SOURCE Event Cause: EQP Cause: DEFECTIVE OR FAILED PART Old Cause: DEFECTIVE OR FAILED PARTS LKS Cause: DEFECTIVE OR FAILED PART Old Cause: DEFECTIVE OR FAILED PARTS **Event IAEA Aggregate Category:** EQP IAEA Aggregate Category: 5 LKS IAEA Aggregate Category: 5 **Corrective Actions Information:** Action Number: Corrective Action: EQP

1 MATERIAL DISPOSED OF AS WASTE

1 MATERIAL DISPOSED OF AS WASTE

## Source of Radiation:

Source Number: 1				·		
Source/Radioactive Mater	rial: SEALEI	D SOURCE CA	LIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	NR			Activity:	0.000015 Ci	0.000555 GBq
Model Number:	NR			IAEA Category:	5	
Serial Number:	RO3-44	83-43-3				
LKS						
Source Number: 1						
Source/Radioactive Mater	rial: SEALEI	D SOURCE CA	LIB/MARKER	Radionuclide:	CS-137	
Manufacturer:	NR			Activity:	0.000015 Ci	0.000555 GBq
Model Number:	NR			IAEA Category:	5	
Serial Number:	RO3-44	83-43-3		Leak Test Result:	0.0184 uCi	0.6808 kBq
<b>Reporting Requirements:</b> EQP						
Reporting Requirement:	30.50(b)(2)( WHEN THE FAILS TO F	ii) - old - (SUPE EQUIPMENT UNCTION.	ERSEDED) EQUIF IS REQUIRED TO	PMENT IS DISABLED OR F BE AVAILABLE AND OPE	FAILS TO FUNCTION A ERABLE WHEN IT IS (	AS DESIGNED DISABLED OR
LKS						
Reporting Requirement:	35.67(e) - N radioactive	ledical source l material.	eak test revealed	the presence of 185 Bq (0.0	005 uCi) or more of rem	novable
References:						
Reference Number:	Entry Date:	Retraction Date:	Type of Report:			
ML040920316	04/12/2004		REGION REPO	RT		

LICENSEE REPORT

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**REGION REPORT** 

ML040920316

LTR040609

04/12/2004

07/07/2004

#### Last Updated: 03/15/2004

## Narrative:

The licensee reported that a dose calibrator reference source was leaking. The source (NEN serial #57009-2) was originally purchased in 1979 and contained a decayed activity of 4.4 MBq (118.9 uCi) of Cs-137. This was the first leak test of this source since it was placed in long-term storage in 1988. The initial leak test was performed with a dry canvas wipe and showed 104 Bq (0.00281 uCi) of removable activity. Two follow-up leak tests with alcohol swaps showed 241 and 552 Bq (0.0065 and 0.015 uCi) of removable activity, respectively. Wipes of the interior of the lead pig used to stored the source showed 17 Bq (0.00045 uCi) of removable activity while wipes of the exterior of the pig, the storage cabinet, and the area where the source was leak tested showed no detectable contamination. To prevent recurrence, the licensee will leak test sources in storage at intervals not to exceed 10 years. The source and the lead pig were sealed in plastic bags and returned to storage pending disposal.

Event Date:	11/21/2003		Date Reported to	Agreement State:	
Discovery Date:	11/21/2003		Date Reported to	NRC:	11/24/2003
Licensee/Reporting	Party Informat	ion:			
Agreement State R	egulated: NO		Reciprocity:	NONE	
License Number:	53-15	5737-01	Name:	WILCOX MEMORI	AL HOSPITAL
NRC Docket Numb	er: 0300	9666	City:	LIHUE	
NRC Program Code	e: 02120	0	State: HI	Zip Code: 96766	
Responsible NRC F	Region: 4				
Site of Event:					
Site Name: LIHUE			State:	н	
Additional Involved	Party:				
License Number:	NA		Name:	NA	
NRC Docket Numb	er: NA		City:	NA	
NRC Program Code	e: NA		State: NA	Zip Code: NA	
Responsible NRC F	Region: NA				
Other Information:					
NRC Reportable Ev	vent:	Y	Abnormal C	ccurrence:	Ν
Agreement State R	eportable Event	: <b>N</b>	Investigation	n:	Ν
Atomic Energy Act	Material:	Y	NMED Reco	ord Complete:	Y
Consultant Hired:		Ν	Event Close	ed by Region/State:	Y

#### Event Type:

**EQP - EQUIPMENT** LKS - LEAKING SOURCE **Event Cause:** EQP DEFECTIVE OR FAILED PART Cause: Old Cause: DEFECTIVE OR FAILED PARTS LKS Cause: DEFECTIVE OR FAILED PART Old Cause: DEFECTIVE OR FAILED PARTS **Event IAEA Aggregate Category:** EQP IAEA Aggregate Category: 5 LKS IAEA Aggregate Category: 5 **Corrective Actions Information:** Action Number: Corrective Action: EQP MATERIAL DISPOSED OF AS WASTE 1 2 PROCEDURE MODIFIED LKS MATERIAL DISPOSED OF AS WASTE 1 2 PROCEDURE MODIFIED

## Source of Radiation:

Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137		
	NEW ENGLAND NUCLEAR	Activity:	0.0001189 Ci	0.0043993 GBo	
	NA	IAEA Category:	5.		
	57009-2				
1					
Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	CS-137		
	NEW ENGLAND NUCLEAR	Activity:	0.0001189 Ci	0.0043993 GBq	
	NA	IAEA Category:	5		
	57009-2	Leak Test Result:	0.015 uCi	0.555 kBq	
quipmen	t:				
••					
1					
CONTAI	NER, PIG, LEAD	Model Number:	NA		
NR		Serial Number:	NA		
1					
CONTAI	NER, PIG, LEAD	Model Number:	NA		
NR		Serial Number:	NA		
ents:					
nent: 30. Wł FA	U.50(d)(2)(II) - OID - (SUPERSEDED) EQUIPMENT IS DISABLED OR FAILS TO FUNCTION AS DESIGNED WHEN THE EQUIPMENT IS REQUIRED TO BE AVAILABLE AND OPERABLE WHEN IT IS DISABLED OR AILS TO FUNCTION.				
nent: 35. rac	i.67(e) - Medical source leak test revealed the presence of 185 Bq (0.005 uCi) or more of removable dioactive material.				
	1 Equipment 1 CONTAIN NR 1 CONTAIN NR nents: nent: 30. WH FA nent: 35. rad	NEW ENGLAND NUCLEAR NA 57009-2 1 Material: SEALED SOURCE CALIB/MARKER NEW ENGLAND NUCLEAR NA 57009-2 Equipment: 1 CONTAINER, PIG, LEAD NR 1 CONTAINER, PIG, LEAD NR nent: 30.50(b)(2)(ii) - old - (SUPERSEDED) EQUI WHEN THE EQUIPMENT IS REQUIRED TO FAILS TO FUNCTION. nent: 35.67(e) - Medical source leak test revealed radioactive material.	NEW ENGLAND NUCLEAR Activity:   NA IAEA Category:   57009-2 57009-2   1 EMaterial: SEALED SOURCE CALIB/MARKER Radionuclide:   NEW ENGLAND NUCLEAR Activity: NA   NA IAEA Category: 57009-2   Equipment: IAEA Category: 57009-2   Equipment: IAEA Category: 57009-2   Equipment: IAEA Category: 57009-2   ICONTAINER, PIG, LEAD Model Number:   NR Serial Number:   Inent: 30.50(b)(2)(ii) - old - (SUPERSEDED) EQUIPMENT IS DISABLED OR   WHEN THE EQUIPMENT IS REQUIRED TO BE AVAILABLE AND OF   FAILS TO FUNCTION.	NEW ENGLAND NUCLEAR Activity: 0.0001189 Ci   NA IAEA Category: 5.   \$7009-2 IAEA Category: 5.   1 Material: SEALED SOURCE CALIB/MARKER Radionuclide: CS-137   NEW ENGLAND NUCLEAR Activity: 0.0001189 Ci NA   NA IAEA Category: 5 5   57009-2 Leak Test Result: 0.015 uCi   Equipment:   1 CONTAINER, PIG, LEAD Model Number: NA   NR Serial Number: NA   1 CONTAINER, PIG, LEAD Model Number: NA   NR Serial Number: NA   Serial Number: NA Serial Number:   NR Serial Number: NA   NR Serial Number: NA   Serial Numb	

Number:	Date:	Date:	Report:
ML033370998	12/17/2003		LICENSEE REPORT
LTR031124	01/21/2004		LICENSEE REPORT
LTR040205	02/05/2004		NRC LETTER
LTR040131	03/15/2004		REGION REPORT

## Narrative:

The licensee reported a leaking source within a Beckman liquid scintillation counter (model LS6000IC, serial #7060302). The source (Beckman model 598860, lot #1415) contained 1.11 MBq (30 uCi) of Cs-137 on 3/20/1990. A low count rate error message on the instrument prompted the initiation of repairs on 10/28/2002, during which the source was discovered to be leaking. The exact amount of leakage was not determined due to ALARA considerations, but field survey instrument readings were consistent with leakage above 1.85 kBq (0.05 uCi). The transfer tube through which the source travels was found to be contaminated and was removed for disposal. Contamination was also found on the exterior of the sample shield assembly, which was decontaminated. Beckman was notified of the incident.

Event Date:	10/28/20	02	C	Date R	teported to	Agreement State:		
Discovery Date:	10/28/20	02	C	Date R	eported to	NRC:	10/31/2002	
Licensee/Reporting	Party Infe	ormatio	en:					
Agreement State R	egulated:	NO		R	eciprocity:	NONE		
License Number:		21-041	09-16	N	ame:	HENRY FORD HO	SPITAL	
NRC Docket Numb	er:	030020	)43	С	ity:	DETROIT		
NRC Program Code	e:	02110		S	tate: MI	Zip Code: 48202		
Responsible NRC F	Region:	3						
Site of Event:								
Site Name: DETRO	ΟΙΤ			S	tate:	MI		
Additional Involved	Party:							
License Number:		NA		N	ame:	NA		
NRC Docket Numb	er:	NA		С	ity:	NA		
NRC Program Code	e:	NA		S	tate: NA	Zip Code: NA		
Responsible NRC F	Region:	NA						
Other Information:								
NRC Reportable Ev	vent:		Y	A	bnormal Oo	ccurrence:	Ν	
Agreement State R	eportable	Event:	N	łn	vestigation	1:	Y	
Atomic Energy Act	Material:		Y	N	MED Reco	rd Complete:	Y	
Consultant Hired:			Ν	E	vent Close	d by Region/State:	Y	

#### **Event Type:**

**EQP - EQUIPMENT** LKS - LEAKING SOURCE **Event Cause:** EQP Cause: DEFECTIVE OR FAILED PART Old Cause: DEFECTIVE OR FAILED PARTS LKS DEFECTIVE OR FAILED PART Cause: Old Cause: DEFECTIVE OR FAILED PARTS **Event IAEA Aggregate Category:** EQP IAEA Aggregate Category: 5 LKS IAEA Aggregate Category: 5 **Corrective Actions Information:** Action Number: Corrective Action: EQP

1 MATERIAL DISPOSED OF AS WASTE

1 MATERIAL DISPOSED OF AS WASTE

### Source of Radiation:

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- Source Number					·····		
Source Number:	1 Notorial			Dettermentet	00.407		
Monufacturar	e wateria	1. SEALED SOURCE C		Radionuciide:	CS-137		
Madal Number		BECKMAN INSTRUM	MENTS	Activity:	0.00003 Ci	0.00111 GBq	
Nodel Number:		598860	•	IAEA Category:	5		
Senar Number:		NK					
LKS							
Source Number:	1						
Source/Radioactiv	e Material	I: SEALED SOURCE C	ALIB/MARKER	Radionuclide:	CS-137		
Manufacturer:		BECKMAN INSTRUM	MENTS	Activity:	0.00003 Ci	0.00111 GBq	
Model Number:		598860		IAEA Category:	5		
Serial Number:		NR		Leak Test Result:	NR uCi	NR kBq	
Device/Associated	Equipmer	nt:					
EQP	•••						
Device Number:	1						
Device Name:	LIQUID	SCINTILLATION COUN	NTER	Model Number:	LS6000IC		
Manufacturer:	BECKM	IAN INSTRUMENTS		Serial Number:	7060302		
LKS							
Device Number:	1						
Device Name:	LIQUID	SCINTILLATION COUN	NTER	Model Number:	LS6000IC		
Manufacturer:	Manufacturer: BECKMAN INSTRUMENTS			Serial Number:	7060302		
Reporting Requiren	nents:						
Reporting Requirement: 30. WH FAI		i0.50(b)(2)(ii) - old - (SUPERSEDED) EQUIPMENT IS DISABLED OR FAILS TO FUNCTION AS DESIGNED WHEN THE EQUIPMENT IS REQUIRED TO BE AVAILABLE AND OPERABLE WHEN IT IS DISABLED OR FAILS TO FUNCTION.					
LKS							
Reporting Requirement: 35.67(e) - N radioactive		5.67(e) - Medical source dioactive material.	leak test revealed th	he presence of 185 Bq (0.	.005 uCi) or more of rem	ovable	
References:							
Reference	En	ntry Retraction	Type of				

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML023410011	01/15/2003		LICENSEE REPORT
ML043240304	12/06/2004		INSPECTION REPORT

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