

Soil and Construction Materials Testing Laboratory

July 09, 2021



**Licensing Assistance Team
Division of Nuclear Materials Safety
US Nuclear Regulatory Commission, Region I
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406-2713**

**RE: NUCLEAR GAUGE TRANSFER DOCUMENT:
PIM ENGINEERING LABORATORY, PSC (LIC. NO. 52-24908-02) TO DESPIAU
ASSOCIATES (LIC. 52-24895-02)**

Dear Licensing Assistance Team:

The following is to document the nuclear gauge transfer between PIM Engineering Laboratory, PSC, transferor, and Despiou Associates, Corp., transferee. A total of fourteen (14) CPN International portable gauging devices were included in this transaction, as listed herein:

Model / Serial Number	Model / Serial Number
MC-1 DRP / MD-90805266	MC-1 DRP / MD-80504263
MC-1 DRP / MD-90805265	MC-1 DRP / MD-10306078
MC-1 DR / MD-0019317	MC-1 DRP / MD-60308208
MC-1 DR / MD-50902862	MC-1 DRP / MD-60308209
MC-1 DR / MD-20801007	MC-1 DRP / MD-40607431
MC-1 DRP / MD-0109885	MC-1 DRP / MD-90805261
MC-1 DRP / MD-60703285	MC-1 DRP / MD-91205419

In addition, the most recent leak tests, completed in March 2021, are enclosed for reference.

Certified correct,


José R. Despiou, PE
Despiou Associates Corp.
Transferee


Jose L. Irizarry-Rosa, MECE, PE
PIM Engineering Laboratory, PSC
Transferor

Enclosure: Leak Tests March 2021

Leak Test Record
NRC License 52-25430-01

Leak Tested For:
Leak Tested By:

PIM
David Rhoe

Standard Source (NIST traceable):	Am-241	Cs-137 NES-139S
Standard Activity (uCi):	1.145	0.105
Standard Date	15-Nov-98	09-Sep-88

Date of the Leak Test:	09-Mar-21	
Decay Activity uCi (from decay chart):	1.10474	0.04956
Standard (dpm):	2452522.8	110023.2

Instrument used to count wipe sample:	Ludlum
Instrument Model Number:	2200
Instrument Serial Number:	185815

NIST Traceable Standard (cpm)	168268	13939
Counting Efficiency:	0.07	0.13
Counting Efficiency in percentage (%):	6.86	12.67
Counting time (minutes)	1	1
Background (cpm)	177	177
Minimum Detectable Activity:	1.235E-04	6.690E-05

Wipe (Smear) Test: All external or accessible surfaces of the source or housing are wiped with a piece of filter paper or other absorbent material which has been moistened with an appropriate solvent and the activity removed is measured.

Note: Background counts were not subtracted from wipe test sample to calculate sample activity.

Source ID and Serial Number	Wipe Test	Gamma	Sample Activity	Sample Activity
Am-241 & Cs-137 SnMD90805266	181		0.00119	0.00064

This test reveals that 0.005 microcuries or less was present as removable contamination. Should the removable contamination exceed 0.005 microcuries, the source must be removed from use and necessary measures taken according to NRC regulations.


 David Rhoe Health/Medical Physicist

Leak Test Record
NRC License 52-25430-01

Leak Tested For:	PIM	
Leak Tested By:	David Rhoe	
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Note: Background counts were not subtracted from wipe test sample to calculate sample activity.

Source ID and Serial Number	Wipe Test	Sample Activity	Gamma	Sample Activity
Am-241 & Cs-137 SnMD90805265	182	0.00119		0.00065

This test reveals that 0.005 microcuries or less was present as removable contamination. Should the removable contamination exceed 0.005 microcuries, the source must be removed from use and necessary measures taken according to NRC regulations.



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Leak Tested By:	David Rhoe	
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Source ID and Serial Number	Wipe Test	Sample Activity	Gamma	Sample Activity
Am-241 & Cs-137 SnMD0019317	173	0.00114		0.00062

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Leak Tested By:	David Rhoe	
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Decay Activity uCi (from decay chart):	1.10474	0.04956
Standard (dpm):	2452522.8	110023.2
Instrument used to count wipe sample:	Ludlum	
Instrument Model Number:	2200	
Instrument Serial Number:	185815	
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Counting time (minutes)	1	1
Background (cpm)	177	177
Minimum Detectable Activity:	1.235E-04	6.690E-05

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		Gamma	
Source ID and Serial Number	Wipe Test	Sample Activity	Sample Activity
Am-241 & Cs-137 SnMD50902862	171	0.00112	0.00061

This test reveals that 0.005 microcuries or less was present as removable contamination.
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Standard Activity (uCi):	1.145	0.105
Standard Date	15-Nov-98	09-Sep-88
Date of the Leak Test:	09-Mar-21	
Decay Activity uCi (from decay chart):	1.10474	0.04956
Standard (dpm):	2452522.8	110023.2
Instrument used to count wipe sample:	Ludlum	
Instrument Model Number:	2200	
Instrument Serial Number:	185815	
NIST Traceable Standard (cpm)	168268	13939
Counting Efficiency:	0.07	0.13
Counting Efficiency in percentage (%):	6.86	12.67
Counting time (minutes)	1	1
Background (cpm)	177	177
Minimum Detectable Activity:	1.235E-04	6.690E-05

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		Gamma	
Source ID and Serial Number	Wipe Test	Sample Activity	Sample Activity
Am-241 & Cs-137 SnMD20801007	183	0.00120	0.00065

This test reveals that 0.005 microcuries or less was present as removable contamination. Should the removable contamination exceed 0.005 microcuries, the source must be removed from use and necessary measures taken according to NRC regulations.



 David Rhoe Health/Medical Physicist

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NRC License 52-25430-01

Leak Tested For:
Leak Tested By:

PIM
David Rhoe

Standard Source (NIST tracable):	Am-241	Cs-137 NES-139S
Standard Activity (uCi):	1.145	0.105
Standard Date	15-Nov-98	09-Sep-88

Date of the Leak Test:	09-Mar-21	
Decay Activity uCi (from decay chart):	1.10474	0.04956
Standard (dpm):	2452522.8	110023.2

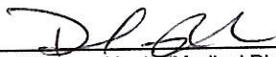
Instrument used to count wipe sample:	Ludlum
Instrument Model Number:	2200
Instrument Serial Number:	185815

NIST Traceable Standard (cpm)	168268	13939
Counting Efficiency:	0.07	0.13
Counting Efficiency in percentage (%):	6.86	12.67
Counting time (minutes)	1	1
Background (cpm)	177	177
Minimum Detectable Activity:	1.235E-04	6.690E-05

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		Gamma	
Source ID and Serial Number	Wipe Test	Sample Activity	Sample Activity
Am-241 & Cs-137 SnMD0109885	173	0.00114	0.00062

This test reveals that 0.005 microcuries or less was present as removable contamination.
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David Rhoe Health/Medical Physicist

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Leak Tested For:	PIM	
Leak Tested By:	David Rhoe	
Standard Source (NIST traceable):	Am-241	Cs-137 NES-139S
Standard Activity (uCi):	1.145	0.105
Standard Date	15-Nov-98	09-Sep-88
Date of the Leak Test:	09-Mar-21	
Decay Activity uCi (from decay chart):	1.10474	0.04956
Standard (dpm):	2452522.8	110023.2
Instrument used to count wipe sample:	Ludlum	
Instrument Model Number:	2200	
Instrument Serial Number:	185815	
NIST Traceable Standard (cpm)	168268	13939
Counting Efficiency:	0.07	0.13
Counting Efficiency in percentage (%):	6.86	12.67
Counting time (minutes)	1	1
Background (cpm)	177	177
Minimum Detectable Activity:	1.235E-04	6.690E-05

Wipe (Smear) Test: All external or accessible surfaces of the source or housing are wiped with a piece of filter paper or other absorbent material which has been moistened with an appropriate solvent and the activity removed is measured.
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Source ID and Serial Number		Gamma	
Am-241 & Cs-137 SnMD60703285	Wipe Test 189	Sample Activity 0.00124	Sample Activity 0.00067

This test reveals that 0.005 microcuries or less was present as removable contamination.
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 David Rhoe Health Medical Physicist

Leak Test Record
NRC License 52-25430-01

Leak Tested For:		PIM
Leak Tested By:		David Rhoe
Standard Source (NIST tracable):	Am-241	Cs-137 NES-139S
Standard Activity (uCi):	1.145	0.105
Standard Date	15-Nov-98	09-Sep-88
Date of the Leak Test:		09-Mar-21
Decay Activity uCi (from decay chart):	1.10474	0.04956
Standard (dpm):	2452522.8	110023.2
Instrument used to count wipe sample:		Ludlum
Instrument Model Number:		2200
Instrument Serial Number:		185815
NIST Traceable Standard (cpm)	168268	13939
Counting Efficiency:	0.07	0.13
Counting Efficiency in percentage (%):	6.86	12.67
Counting time (minutes)	1	1
Background (cpm)	177	177
Minimum Detectable Activity:	1.235E-04	6.690E-05

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		Gamma	
Source ID and Serial Number	Wipe Test	Sample Activity	Sample Activity
Am-241 & Cs-137 SnMD80504263	167	0.00110	0.00059

This test reveals that 0.005 microcuries or less was present as removable contamination.
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 David Rhoe Health/Medical Physicist

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Leak Tested For:
Leak Tested By:

PIM
David Rhoe

Standard Source (NIST traceable):
Standard Activity (uCi):
Standard Date

Am-241	Cs-137 NES-139S
1.145	0.105
15-Nov-98	09-Sep-88

Date of the Leak Test:
Decay Activity uCi (from decay chart):
Standard (dpm):

	09-Mar-21
1.10474	0.04956
2452522.8	110023.2

Instrument used to count wipe sample:
Instrument Model Number:
Instrument Serial Number:

Ludlum
2200
185815

NIST Traceable Standard (cpm)
Counting Efficiency:
Counting Efficiency in percentage (%):
Counting time (minutes)
Background (cpm)
Minimum Detectable Activity:

168268	13939
0.07	0.13
6.86	12.67
1	1
177	177
1.235E-04	6.690E-05

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		Gamma	
Source ID and Serial Number	Wipe Test	Sample Activity	Sample Activity
Am-241 & Cs-137 SnMD10306078	187	0.00123	0.00066

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Leak Tested By:

PIM
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Standard Activity (uCi):	1.145	0.105
Standard Date	15-Nov-98	09-Sep-88

Date of the Leak Test:	09-Mar-21	
Decay Activity uCi (from decay chart):	1.10474	0.04956
Standard (dpm):	2452522.8	110023.2

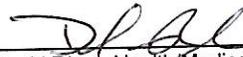
Instrument used to count wipe sample:	Ludlum
Instrument Model Number:	2200
Instrument Serial Number:	185815

NIST Traceable Standard (cpm)	168268	13939
Counting Efficiency:	0.07	0.13
Counting Efficiency in percentage (%):	6.86	12.67
Counting time (minutes)	1	1
Background (cpm)	177	177
Minimum Detectable Activity:	1.235E-04	6.690E-05

Wipe (Smear) Test: All external or accessible surfaces of the source or housing are wiped with a piece of filter paper or other absorbent material which has been moistened with an appropriate solvent and the activity removed is measured.
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		Gamma	
Source ID and Serial Number	Wipe Test	Sample Activity	Sample Activity
Am-241 & Cs-137 SnMD60308208	199	0.00131	0.00071

This test reveals that 0.005 microcuries or less was present as removable contamination.
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Leak Tested By:

PIM
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Standard Date	15-Nov-98	09-Sep-88
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Standard (dpm):	2452522.8	110023.2
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Instrument Model Number:		2200
Instrument Serial Number:		185815
NIST Traceable Standard (cpm)	168268	13939
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Counting time (minutes)	1	1
Background (cpm)	177	177
Minimum Detectable Activity:	1.235E-04	6.690E-05

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Source ID and Serial Number	Wipe Test	Sample Activity	Gamma	Sample Activity
Am-241 & Cs-137 SnMD60308209	205	0.00135		0.00073

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Leak Tested For:
Leak Tested By:

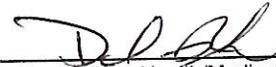
PIM
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Source ID and Serial Number	Wipe Test	Sample Activity	Gamma Sample Activity
Am-241 & Cs-137 SnMD40607431	176	0.00116	0.00063

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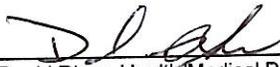
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		Gamma	
Source ID and Serial Number	Wipe Test	Sample Activity	Sample Activity
Am-241 & Cs-137 SnMD90805261 Metro	184	0.00121	0.00065

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Source ID and Serial Number	Wipe Test	Sample Activity	Gamma Sample Activity
Am-241 & Cs-137 SnMD91205419 Metro	181	0.00119	0.00064

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