

September, 15, 2016

USNRC Region I DNMS
2100 Renaissance Blvd
King of Prussia, PA 19406

52-19845-01
03019320

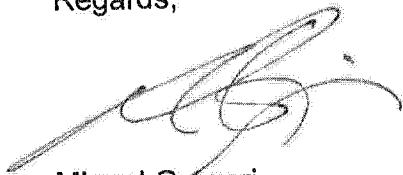
RE: Leak test results

Dear Sir or Madam,

Included are the leak test results for the devices stored at our Bayamon facility.

Please let me know if I can be of any assistance.

Regards,



Miguel Gregori
Quality Control Sub-Director

C. Ángel Cartagena



PO BOX 21420, SAN JUAN, PR 00928-1420 TELS (787) 760-1094 / 764-1000 / 765-1234 FAX (787) 748-6720 / 758-7508 / 282-6408



Quality is not an accident, it is the aim of our people.

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REC'D IN LAT 09/19/2016

NMSS/RGNI MATERIALS-002

3N

Leak Test Record
NRC License 52-25430-01

Leak Tested For:
Leak Tested By:

Betterroads
David Rhoe

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

H-3
0.045525
04-Mar-96

C-14
0.020905
04-Mar-96

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

04-May-16
0.01468
32589.6

0.02085
46287

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

Beckman LSC
6500
4847

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

18471
0.57
56.68
1
24
5.506E-06

45479
0.98
98.25
1
24
3.176E-06

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
Am-241 & Cs-137 SnM380709094

Wipe Test
125

Sample Activity
0.00010

Gamma
Sample Activity
0.00006

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:

Leak Tested By:

Betterroads

David Rhoe

Standard Source (NIST tracable):

Standard Activity (uCi):

Standard Date

H-3

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Beckman LSC

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NIST Traceable Standard (cpm)

Counting Efficiency:

Counting Efficiency in percentage (%):

Counting time (minutes)

Background (cpm)

Minimum Detectable Activity:

18471

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56.68

1

24

5.506E-06

45479

0.98

98.25

1

24

3.176E-06

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

Am-241 & Cs-137 SnM331007182

Wipe Test

49

Sample Activity

0.00004

Gamma

Sample Activity

0.00002

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