

Leak Test Record  
NRC License 52-25430-01

Leak Tested For: Jaca & Sierra  
Leak Tested By: David Rhoe  
  
Standard Source: Cs-137 NES-139S  
Standard Activity: 0.105 uCi Nominally  
Date of Standard: 32395  
  
Date of Leak Test: 3-Jul-12  
Decay Activity: 0.06049 From decay chart  
Standard (dpm): 134287.8

Instrument: Beckman Gamma  
Instrument Model Number: 5500  
Instrument Serial Number: 8044788

Standard (cpm) 34286  
Efficiency: 0.25532 25.5 %  
Counting time (minutes) 1  
Background (cpm) 101  
Minimum Detectable Activity: 2.508E-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.

	Gamma	
Source ID and Serial Number	Wipe Test	Sample Activity
Ra-226 21272	95	0.00017

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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	Gamma	
Source ID and Serial Number	Wipe Test	Sample Activity
Ra-226 21206	91	0.00016

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	Gamma	
Source ID and Serial Number	Wipe Test	Sample Activity
Ra-226 21194	77	0.00014

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Instrument: Beckman Gamma  
Instrument Model Number: 5500  
Instrument Serial Number: 8044788

Standard (cpm) 34286  
Efficiency: 0.25532 25.5 %  
Counting time (minutes) 1  
Background (cpm) 101  
Minimum Detectable Activity: 2.508E-05

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	Gamma	
Source ID and Serial Number	Wipe Test	Sample Activity
Ra-226 21192	70	0.00012

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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