

Leak Test Record  
NRC License 52-25430-01

Leak Tested For:	Constructora I. Melendez	
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:	19-Aug-22	
Decay Activity uCi (from decay chart):	1.10218	0.04794
Standard (dpm):	2446839.6	106426.8
Instrument used to count wipe sample:	Beckman Gamma	
Instrument Model Number:	5500	
Instrument Serial Number:	8044788	
NIST Traceable Standard (cpm)	127601	12418
Counting Efficiency:	0.05	0.12
Counting Efficiency in percentage (%):	5.21	11.67
Counting time (minutes)	1	1
Background (cpm)	192	192
Minimum Detectable Activity:	1.693E-04	7.565E-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	Sample Activity	Gamma Sample Activity
Ra-226 Seamans C-200 Sn L-538	170	0.00147	0.00066

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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Standard Date	15-Nov-98	09-Sep-88
Date of the Leak Test:	26-Aug-22	
Decay Activity uCi (from decay chart):	1.10215	0.04792
Standard (dpm):	2446773	106382.4
Instrument used to count wipe sample:	Beckman Gamma	
Instrument Model Number:	5500	
Instrument Serial Number:	8044788	
NIST Traceable Standard (cpm)	135851	12809
Counting Efficiency:	0.06	0.12
Counting Efficiency in percentage (%):	5.55	12.04
Counting time (minutes)	1	1
Background (cpm)	251	251
Minimum Detectable Activity:	1.818E-04	8.382E-05

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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
Ra-226 Seamans C-300 Sn21246	310	0.00252	0.00116

This test reveals that 0.005 microcuries or less was present as removable contamination.  
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Instrument used to count wipe sample:	Beckman Gamma	
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Instrument Serial Number:	8044788	
NIST Traceable Standard (cpm)	135851	12809
Counting Efficiency:	0.06	0.12
Counting Efficiency in percentage (%):	5.55	12.04
Counting time (minutes)	1	1
Background (cpm)	251	251
Minimum Detectable Activity:	1.818E-04	8.382E-05

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Source ID and Serial Number	Wipe Test	Sample Activity	Gamma Sample Activity
Ra-226 Seamans C-300 Sn21054	325	0.00264	0.00122

This test reveals that 0.005 microcuries or less was present as removable contamination.  
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Decay Activity uCi (from decay chart):	1.10215	0.04792
Standard (dpm):	2446773	106382.4
Instrument used to count wipe sample:	Beckman Gamma	
Instrument Model Number:	5500	
Instrument Serial Number:	8044788	
NIST Traceable Standard (cpm)	135851	12809
Counting Efficiency:	0.06	0.12
Counting Efficiency in percentage (%):	5.55	12.04
Counting time (minutes)	1	1
Background (cpm)	251	251
Minimum Detectable Activity:	1.818E-04	8.382E-05

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Source ID and Serial Number	Wipe Test	Sample Activity	Gamma Sample Activity
Ra-226 Seamans C-300 Sn21052	298	0.00242	0.00111

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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