

Washington University

School of Medicine -- In St. Louis

Division of Radiation SafetyDate: March 13, 2000Time: 4 PM CSTTotal Number of Pages Including Cover: 2To: James Mullauer
Region III, USNRC

Message:

The following pgae is a copy of the leak test results for the HDR that wastransferred by Nucletron personnel from our institution to Nucletron onJanuary 11, 2000.Sincerely,John Eichling

If you did not receive all the pages as indicated above, please call 1-314-362-3333.



Transport Drum (Barrel) Wipe Test Work Sheet
Sealed Source (Cable) Leak Test Work Sheet

1. Follow the USA Nucleon Wire Tact Work Instruction, to perform the test, and background measurements.
2. After the report source is received within the allotted time, remove shipping container (if), collect a leak test sample of the sealed source by wiping along the source cable. Using the small square pad provided, wipe FROM the end of the cable TO WARD the source. Do not touch the source in any other fashion. Immediately secure the source in the plastic envelope.
3. Collect a wipe size of 300 cm² from the exterior of the outer shipping container using the swabstick. Wipe twice (2x) around the side of the container and twice (2x) across the top using the padstick. Immediately secure the swabstick in the plastic envelope.
4. In a low radiation background area, use the "Imprecise" type of instrument to measure the background dose rate and the dose rate from each wipe. Do NOT subtract the wipe from the ambient. Place the swabstick in the tray, enclosed under the detector. If necessary, shorten the stick on the outside to fit. Record the observed value in each of the blocks provided. Use direct counts if BLD is varying. If the dose rate from either wipe is more than three (3) times the background dose rate, re-count the background dose rate. If the ratio is unswabbed, call the Nucleon BSO for instructions. Do NOT mail source that exceed 3x background.
5. If the wipe is in the range of natural background, complete the required information below and mail the source BDA MEDIA TELLY in the envelope provided to Philadelphia Media Physical, 1503 Cedarwood Drive, Philadelphia, PA 19124-2209; (610) 831-2238.
6. Measure and record the maximum dose rate on the surface of the outer shipping container and the maximum dose rate at one (1) meter.
- 7.

R# Number	Device Serial No.	Source Serial No.	Container Serial No.	Radio-nuclide	Wiped/Last Test Date	Wiped By (Print Name)	Wipe Measured Before Mailing OK if S & BG
3520	instr. 9225 instr. v2 instr. SLDR SDOR	8164	1117AD	IF 192	12/31/69	Wheeler K 11225	BG 41 gms Drm 33 Cable 39
Maximum Dose Rate (Surf.):	3.7	mR/h	Maximum Dose Rate (1 meter):	2	mR/h	Current Activity:	3.8630 Ci

The Timpagor Drum Wipes Test was designed for gamma irradiation using a calibrated well type scintillation detector. Title 49 CFR 173.443 limits the transportable contamination for 300 cm² surface wipes to no less than 120 Bq (0.003 µCi) (6600 dpm) for external surfaces of packages in transportation. PTP certifies that the wipe test analyzed contains the quantity of radioactive material NOS shown below.

第一節

The Leak Test Sample was assayed for gamma radiation using a calibrated well type scintillation detector. Title 10 CFR 35.59 limits the removable contamination from a sealed source used by brachytherapy to 0.005 μCi (11100 dpm) (200 Bq). PTD certifies that the Leak Test analyzed contains the quantity of radioactive material N/A as shown below.

056-1888

Print analysis was completed using the procedures approved under US NAC License 37-20797-01 for Look Test analysis.

Notes to Licensee: This report should be reviewed by your Radiation Safety Officer and filed for future reference.

Resubmission: Submit a new version of your manuscript to the Editor and Editor for future reference.

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