



January 21, 2014

Reference: License #26-18033-01E

Attention: Traci Kime / Anthony Kirkwood
Nuclear Material Safety and Safeguards
US Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: Annual Report of Byproduct Material Transfer

This report is required per VISHAY's license with the USNRC and the State of Nebraska per Section 32.16, 10 CFR Part 32. Certain models of plasma display/ tubes manufactured at the Columbus site contain Kr-85. It is a controlled byproduct material. Kr-85 is the only radio nuclide transferred. Kr-85 gas concentrations used are 5.0, 2.5, 1.0 and 0.1 mCi per liter.

The US NRC allows VISHAY to sell / transfer product for use under Section 30.15, paragraph 8, IV, 10 CFR Part 30 pertaining to maximum allowed Kr-85 in a single electron tube. The State of Nebraska also requires the material be transferred in accordance with the provisions of 10 NAC 13.

The USNRC requires a breakdown per product type, pieces shipped, and amount of radio nuclide in each product type. The report summarizes the transfer of product from January 1, 2012 to December 31, 2012. The total number of devices and the total Kr-85 shipped is as follows:

<u>Type of Device</u>	<u># of Devices Shipped</u>	<u>Total Quantity Kr-85 Shipped</u>
Plasma Units	15,379 pcs	7,653 uCi

Please see the attached spreadsheet for a breakdown of transferred byproduct material per each VISHAY part number.

Sincerely,

Dave Wolfe
RSO / Sr. Process Engineer
VISHAY Dale Electronics

CC: Valerie Paul Al Busboom Keith Raysby
Chad Christiansen Bill Fetterley Tom Bertsch

Vishay Dale Electronics, Incorporated

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MANUFACTURER OF THE WORLD'S BROADEST LINE OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENTS

VISHAY, Dale Elec. Byproduct Material Transfer Report for Year 2013

USNRC License # 26-18033-01E State of Nebraska License #10-02-01

2013 Total	Reported 01-2014	Micro Curies	KR-85 Product Types Active in 2013
Display Type	# Shipped	Radiation / Display	Radiation / Type (uCi)
A/PBG-12205,-1-5	148	1.19	176.12
PBG-12205-9	3	1.19	3.57
APD-28D023	373	1.23	458.79
APD-160G040	147	0.94	138.18
APD-192G096B	201	0.372	74.772
PD-08D023-6	3	0.25	0.75
PD-08D023-8	562	0.49	275.38
PD-08D025-17	2	0.42	0.84
PD-09D025-1	62	0.41	25.42
PD-10D020-1	10	0.405	4.05
PD-10D023-9	26	0.553	14.378
PD-10D023-13	4268	0.553	2360.204
PD-10D025-10	64	0.52	33.28
PD-12D023-1	563	0.553	311.339
PD-14D025-5	340	0.667	226.78
PD-20D025-5	503	0.8	402.4
PD-20D025-7	47	0.65	30.55
PD-29D025-1	10	1.3	13
PD-50D023-4,-5	547	0.93	508.71
PD-133B011-1	525	0.515	270.375
PD-133B011-2	150	0.527	79.05
PD-133B011-3	100	0.825	82.5
PD-140B011-1	338	0.607	205.166
PD-171B082-1	25	0.505	12.625
PD-260B011-1	40	0.417	16.68
PDB-100	6,322	0.305	1928.21
TOTAL DISPLAYS	15379	TOTAL RADIATION	7653.119
AVERAGE	RADIATION	PER UNIT	0.497634372

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23RD STREET
UMBUS, NE 68601

PRESORTED
FIRST CLASS



UNITED STATES POSTAGE

PITNEY BOWES
\$ 00.38¹
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